

#### PARTS LIST

LISTE PIECES DETACHEES

ERSATZTEILLISTE

LISTA PARTI DI RICAMBIO

LISTA DE PIEZAS DE REPUESTO

**SABA**

**T7022E**

**Chassis ICC17**

#### MODULES

**MAIN** IC17F5CP026032

**FCB** FCB1701

R 25313060

**KDB** KDB1706

R 25388640



**GK01** TSOP1333 25358570

**IB01** TDA6107Q 10533940

**IF01** TDA8351 20753830

**IP20** TS3702CD FLAT 10537330

**IP50** TLP621 GR(D4-LF2 T) △ 20827900

**IP61** TL431ACZ 10538830

**IP87** MC7812/CT 46007600

**IP95** TDA8139 10044580

**IR01** ST92R195 CUT 2.2 FLAT 10588150

**IR02** IC-ROM THOMSON V2.00-0 1059455A

**IR03** M24C16MN6 FLAT 25348520

**IS40** MSP3410D-PP 10510320

**IS80** TDA7269 10348790

**IV01** TDA8855H FLAT 10533960

**IX01** BA7604N 10539590

**ZL11** MP25 △ 10500150

**ZL13** MP63 △ 10472270

**ZL14** MP125 △ 10469180



**TB01,TP21** BF423 16003110

**TB02,TL02** BF422 16003090

**TF01,TL60,** BC847B SMD 11070770

**TL31,TP58,59,**

**67,71,76,90,**

**TR60,TS01,81,**

**TV10**

**TI10,30,45** DTC144EK SMD 16007030

**TL14** 2SC2236Y 16000220

**TL32** BC337-40 45001466

**TL33** MPS750 16001340

**TL34,TP50** BUH516TH16 10401110

**TL41** BD241C 16001880

**TL42** BC546B 45001866

**TL59,TP42,86,** BC857B SMD 30946660

**TR15**

**TL71** BC847C SMD 90618810

**TL72** RN1401 SMD 10966100

**TP14, TX15,45** BC547B 16000890

**TP15** BTB06-600C 10259910

**TP44** 2SA1020Y 16003740

**TP57,75,82** BCR191 SMD 16006910

**TP72,TR20** DTC113ZK SMD 10550750

**TR13,23,40** BCR141 SMD 16006890

**DB04,DP16,17,** 1N4004 44009009

18,19

**DB05** 1.5KE250A 25353360

**DB30,31,50,51,** BAV21 44044407

70,71, DJ20,

**DL31**

**DE01** BZX55C2V7 80444120

**DF01** BZW04-48 10351880

**DH01** BZX55B33 80442730

**DH04,DL12,32,** 1N4148 44009209

33,72,74,75,

**DP53,DR20,23,**

**DV19**

**DI30,40** BA782S 20542050

**DK01,DL09,** BZX55C5V1/ZPD5V1 80444140

**DP72**

**DL11,24,25,41,** RGP10G 10459090

48

**DL13** RGP30D 10455370

**DL14** RGP15G 10272800

**DL19,73,77,** LL4148 SMD 16012450

**DP24,40,42,52,**

54,56,57,58,

60,61,62,63,

67,70,85,89,

**DR21,22,24,**

**DV09**

**DL21** BY228 16008370

**DL22** BYW76 16009120

**DL42** ZMM5,1 SMD 70446740

**DL48,DX59** BAV103 SMD 10155030

**DL71** ZPD24 44016504

**DP01,02,03,04** BYW27-1000 10455390

**DP06** BZW04-342 25354340

**DP14** BZX55C3V3 30948790

**DP20** ZPD51/BZX55C51/BZX79C51 90578110

**DP21** BZX85C39 80444000

**DP22** BZX55B5V6/ZPD5V6 2% 70438200

**DP43,45,50,87** RGP02-20 10472330

**DP44** BZX55C3V9 80444130

**DP59** BZX55C18 11073680

**DP80** MUR460 16009650

**DP82** FUF4005/MUR16 16009580

**DP83** BAT42 16007410

**DP84,93** MUR120 10564670

**DP94** BZX55C13 70438310

**DR05** LL42 SMD 16012530

**DS90** BZX55C3V6 50890640

**GE01** TLUV5300 LED 11137650

**FI10** OFWK6257K FOS 10545030

**FI20** OFWK9650M FOS 10545440

**FI50** 5M74HZ 20338170

**QC01** 4M433619HZ 10087710

**QC02** 3M579545HZ 10542190

**QR01** 4M0HZ 10254300

**QS40** 18M432HZ 10334670

**FI01** 40M4HZ 20300950

**FI02** 31M9HZ 10552630

**FI30** 77M8HZ 10559760

**PP64** 1K0 OHM 70434550

**RB01,04** 1K5 OHM 5% 0,50W 10121880

**RB06** 220R0 OHM 5% 0,25W △ 15009810

**RB13** 10R0 OHM 10% 0,50W 15000160

**RB31,51,71** 560R0 OHM 10% 0,50W 10257590

**RC02** 1R0 OHM 5% 0,40W △ 13060910

**RF05** 1R0 OHM 1% 0,70W 10254220

**R : RECYCLED PART**

**: PIECE RECYCLEE**

**: AUSTAUSCHTEILE**

**: RICAMBIO RICICLATO**

**: MODULO REPROCESADO**

For any requests, please contact THOMSON multimedia after sales service area

Pour toutes précisions, contactez votre service après vente local THOMSON multimedia

Für weitere Auskünfte, wenden Sie sich bitte an die THOMSON multimedia Kundendienste

Per precisazioni, contattate l'assistenza tecnica THOMSON multimedia

Para cualquier pregunta, por favor contactar con el responsable de zona del servicio postventa de THOMSON multimedia

**04/ 1999** **35082770**

**REV. N° 0 00 / 00** **00000000**

**1/3**

REF	DESCRIPTION	REFERENCE	OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS	EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION
RF07	220RO OHM 1% 0,70W	10233720		
RL01	45K3 OHM 1% 0,25W	15018160		
RL07	6K19 OHM 1% 0,40W	15020490		
RL13	0R47 OHM 5% 2,5W	10537750		
RL26	1K0 OHM 10% 0,50W	10393870		
RL35	4R7 OHM 5% 0,35W	△ 10226310		
RL36,RP10	2R2 OHM 5% 0,25W	△ 15009870	BB05 CATHODE RAY TUBE SOCKET △ 80298800	FRONT PANEL 25371140
RL43	68K1 OHM 1% 0,70W	10147740	SUPPORT TUBE CATHODIQUE	FACADE
RL44	1R0 OHM 5% 0,50W	△ 10576360	BILDROHRENFASSUNG	FRONTPLATTE
RP04	2R7 OHM 5% 4,50W	10379110	SUPPORTO TUBO CATODICO	PANNELLO FRONTALE
RP15	18R0 OHM 220V PTC	△ 41398800	SOPORTE T.R.C	PANEL FRONTAL
RP49	0R47 OHM 5% 2,5W	△ 25339900	BJ10 CINCH SOCKET 10037440	LOGO SABA 25295070
RP50	10M0 OHM 5% 0,70W	△ 10074320	PRISE CINCH	
RP63	432K0 OHM 1% 0,25W	15017950	CINCH-BUCHSE	
RS12	18R0 OHM 5% 0,30W	△ 15009660	PRESA CINCH	
RS87,88	4R7 OHM 5% 0,25W	△ 35032200	TOMA CINCH	
RV20	33K2 OHM 1% 0,25W	15016530	BJ11 SVHS SOCKET 20392900	8R OHM 15W LOUDSPEAKER 60X125 10467060
RX17	10R0 OHM 5% 0,25W	△ 15009580	PRISE SVHS	8R OHM 15W HAUT PARLEUR 60X125
			S-VHS-BUCHSE	8R OHM 15W LAUTSPRECHER 60X125
			PRESA SVHS	8R OHM 15W ALTOPARLANTE 60X125
			TOMA SVHS	8R OHM 15W ALTAVOZ 60X125
			BJ12 JACK SOCKET 10539510	REAR PANEL △ 25346740
			PRISE JACK	DOS
			BUCHSE	RUECKWAND
			PRESA JACK	PANNELLO POSTERIORE
			TOMA JACK	TAPA POSTERIOR
			BX01,02 SCART SOCKET 90617260	POWER SUPPLY LEAD △ 10260880
			PRISE PERITEL	CORDON D'ALIMENTATION
			EURO-AV-BUCHSE	NETZKABEL
			EUROPRESA NORMALIZZATA	CAVO DI ALIMENTAZIONE
			EUROCONECTOR	CABLE DE ALIMENTACION
			CO115 ON/OFF SWITCH △ 10276500	ON/OFF BUTTON 25309090
			CONTACTEUR MARCHE/ARRET	TOUCHE MARCHE/ARRET
			EIN-AUS SCHALTER	EIN-AUS TASTE
			CONTATTORE ACCESO/SPENTO	TASTO ACCESO/SPENTO
			CONTACTATOR MARCHA/PARADA	TECLA MARCHA/PARADA
			FP01 2A5T TIME-LAG FUSE △ 10246750	BUTTON ASSY 25312630
			2A5T FUSIBLE TEMPORISE	ENSEMBLE DE TOUCHES
			2A5T SICHERUNG	TASTENEINHEIT
			2A5T FUSIBLE TEMPORIZATO	ASSIEME TASTI
			2A5T FUSIBLE TEMPORIZADO	CONJUNTO DE TECLAS
			NH01 CTT5010 UHF/VHF TUNER R 20812280	CHASSIS SUPPORT 25297670
			CTT5010 TETE UHF/VHF	SUPPORT CHASSIS
			CTT5010 UHF/VHF TUNER	CHASSIS HALTER
			CTT5010 TUNER UHF/VHF	SUPPORTO CHASSIS
			CTT5010 SINTONIZADOR UHF/VHF	SOPORTE CHASSIS
			SK01,02,03,04 MICROSWITCH 30011100	A66EHJ43X15 CATHODE RAY TUBE △ 10546910
			MICRO CONTACTEUR	A66EHJ43X15 TUBE CATHODIQUE
			MIKROSCHALTER	A66EHJ43X15 FARBBILDROEHRE
			MICROINTERRUTTORE	A66EHJ43X15 TUBO CATODICO
			MICROCONTACTOR	A66EHJ43X15 T.R.C
				DEGAUSSING COIL
				BOBINE DE DEMAGNETISATION
				ENTMAGNETISIERUNGSPULE
				BOBINA DI SMAGNETIZZAZIONE
				BOBINA DE DESIMANTACION
				TC100 REMOTE CONTROL 20879570
				TC100 TELECOMMANDE
				TC100 FERNBEDIENUNG
				TC100 TELECOMANDO
				TC100 TELEMANDO
				FOLDING BOX 25354270
				EMBALLAGE CARTON
				KARTON
				IMBALLAGGIO CARTONE
				EMBALAJE CARTON
				FITTING UPPER 25325170
				CALE SUPERIEURE
				POLSTER OBEN
				DISTANZIATORE SUPERIORE
				CALZO SUPERIOR
				FITTING DOWNER 25325150
				CALE INFERIEURE
				POLSTER UNTEN
				DISTANZIATORE INFERIORE
				CALZO INFERIOR

 T7022E UM TF D/F/I/GB/GR/NL/S/DK/E/P      25390170 T7022E NU TF D/F/I/GB/GR/NL/S/DK/E/P T7022E BA TF D/F/I/GB/GR/NL/S/DK/E/P T7022E IU TF D/F/I/GB/GR/NL/S/DK/E/P T7022E IU TF D/F/I/GB/GR/NL/S/DK/E/P  ICC17 SERVICE MANUAL EUROPE      35063330 ICC17 DOC TECHNIQUE EUROPE ICC17 TECHNISCHE DOKUMENTATION EUROPE ICC17 DOCUMENTAZIONE TECNICA EUROPE ICC17 DOCUMENTACION TECNICA EUROPE  CDROM ICC17      35065140 CDROM ICC17 CDROM ICC17 CDROM ICC17 CDROM ICC17  T7022E PARTS LIST      35082770 T7022E LISTE DE PIECES DETACHEES T7022E ERSATZTEILLISTE T7022E LISTA PARTI DI RICAMBIO T7022E LISTA DE PIEZAS DE REPUESTO		
--	--	--

**T7022E**

3/3

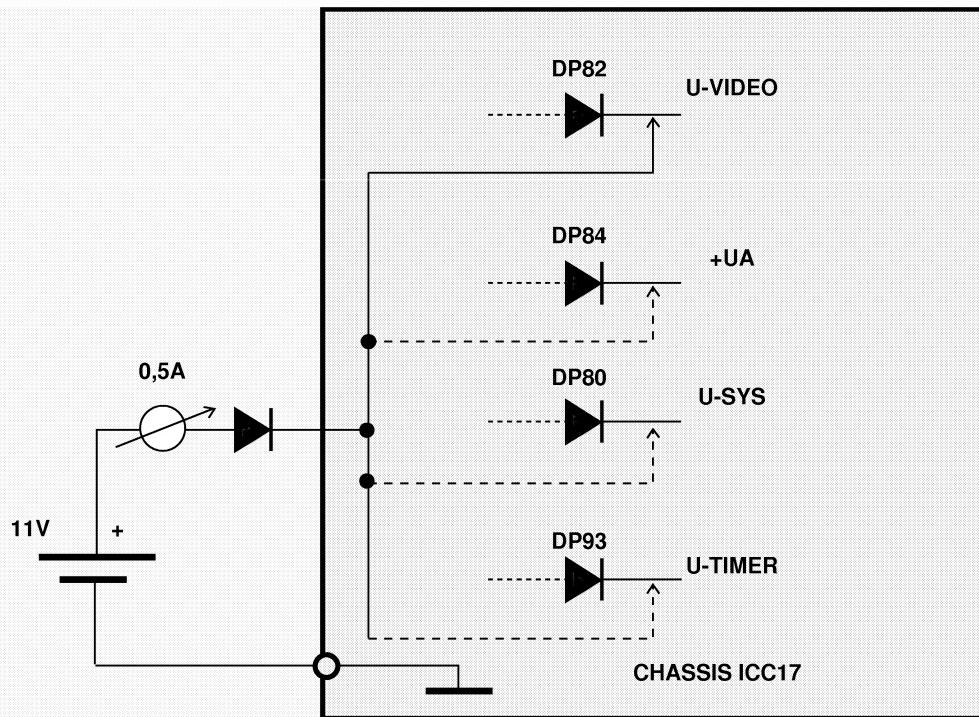
The description and characteristics given here are of informative significance only, and non committal. To keep up the high quality of our products, we reserve the right to make any changes or improvement without previous notice. • Les descriptions et caractéristiques figurant sur ce document sont données à titre d'information et non d'engagement. En effet, soucieux de la qualité de nos produits, nous nous réservons le droit d'effectuer, sans préavis, toute modification ou amélioration. • Die Beschreibungen und Daten in dieser Anleitung dienen nur zur Information und sind nicht bindend. Um die Qualität unserer Produkte ständig zu verbessern, behalten wir uns das Recht auf Änderungen vor. • Le descrizioni e le caratteristiche date su questo documento sono fornite a semplice titolo informativo e senza impegno. Ci riserviamo il diritto di eseguire, senza preavviso, qualsiasi modifica o miglioramento. • Las descripciones y características que figuran en este documento se dan a título de información y no de compromiso. En efecto, en bien de la calidad de nuestros productos, nos reservamos el derecho de efectuar, sin previo aviso, cualquier modificación o mejora.

## SECONDARY DC-VOLTAGES

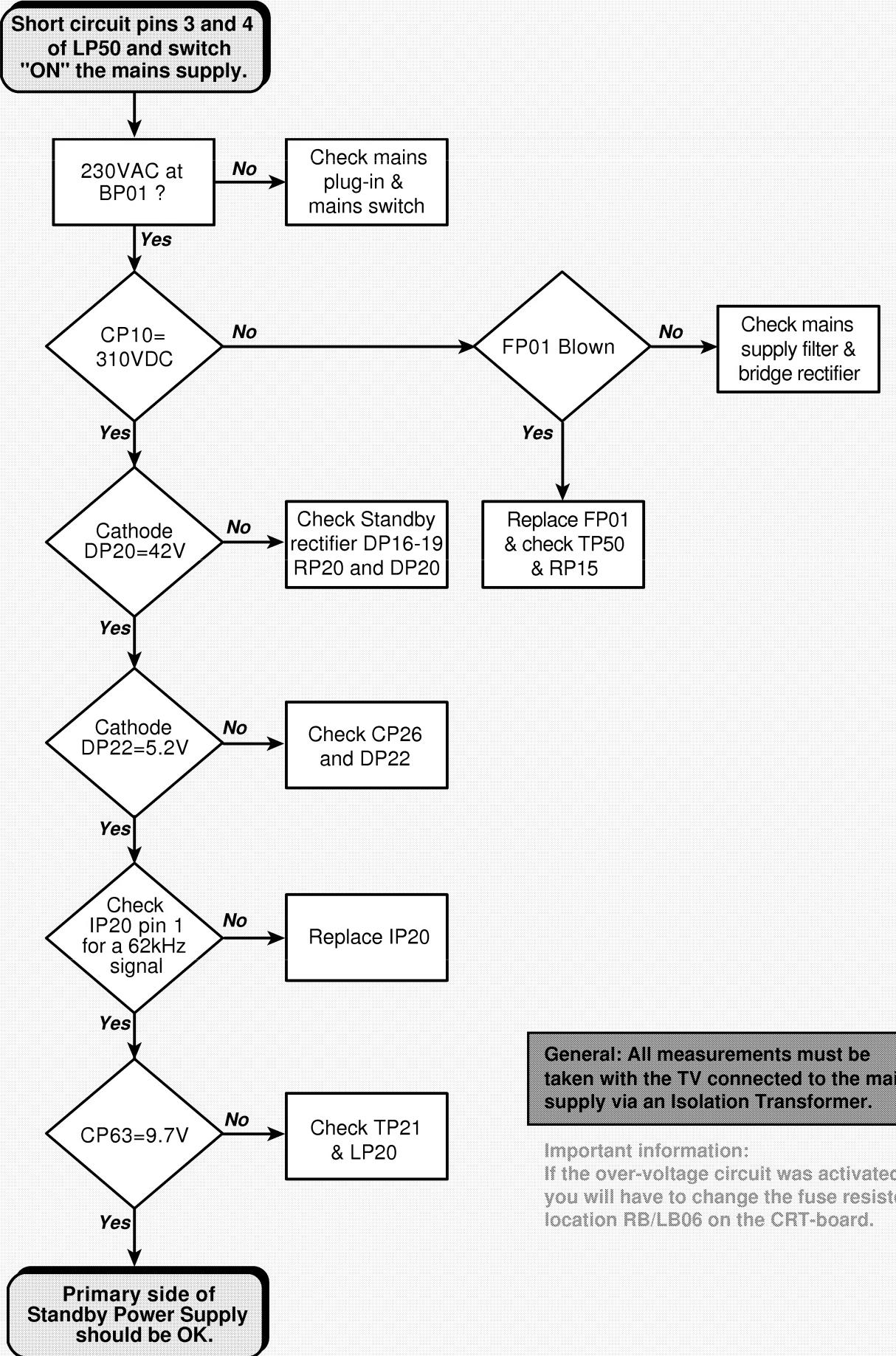
All measurements in this chapter must be done WITHOUT the mains supply connected to the TV.

Test circuit:

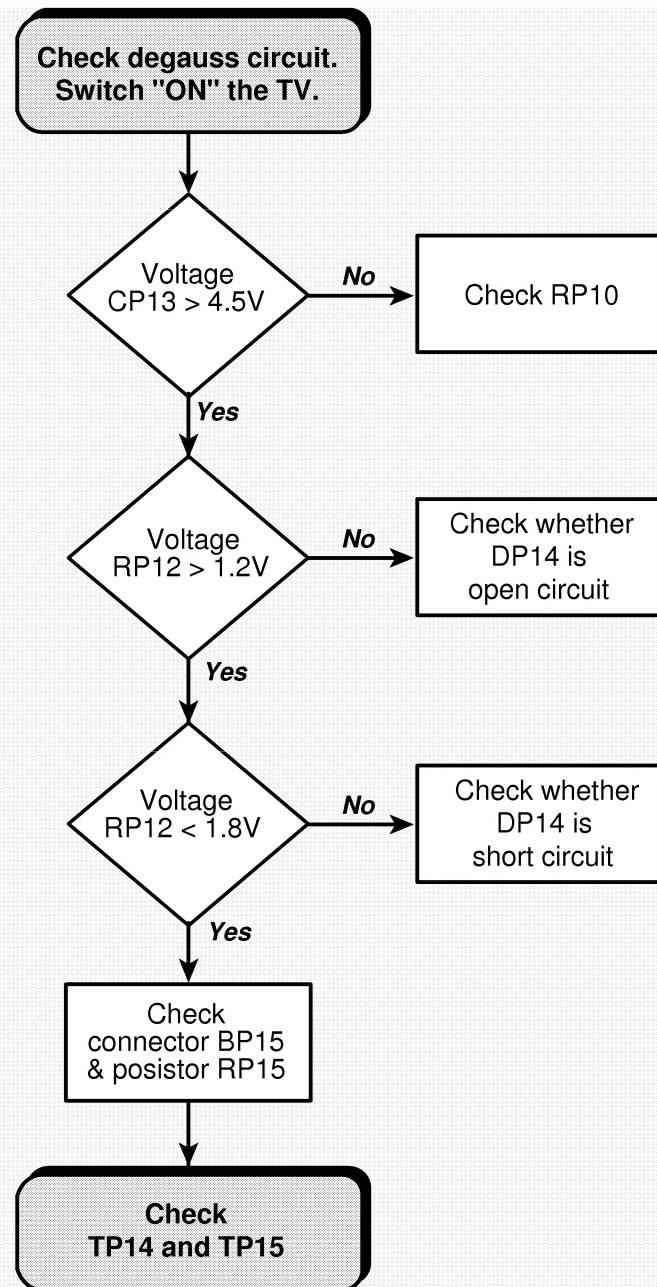
The external voltage source is provided by a variable DC-power supply with its output voltage set to 11V and the current limitation set to 500mA's. The negative terminal of the DC-power supply must be directly connected to the chassis secondary ground plane. The positive terminal of the DC-power supply is first connected to an ammeter and then the anode of an isolation diode. The cathode of the isolation diode is then connected to the load on the chassis as shown below. Measure the current drawn by each load tested.



## STANDBY POWER SUPPLY - PRIMARY SIDE



## DEGAUSSING CIRCUIT



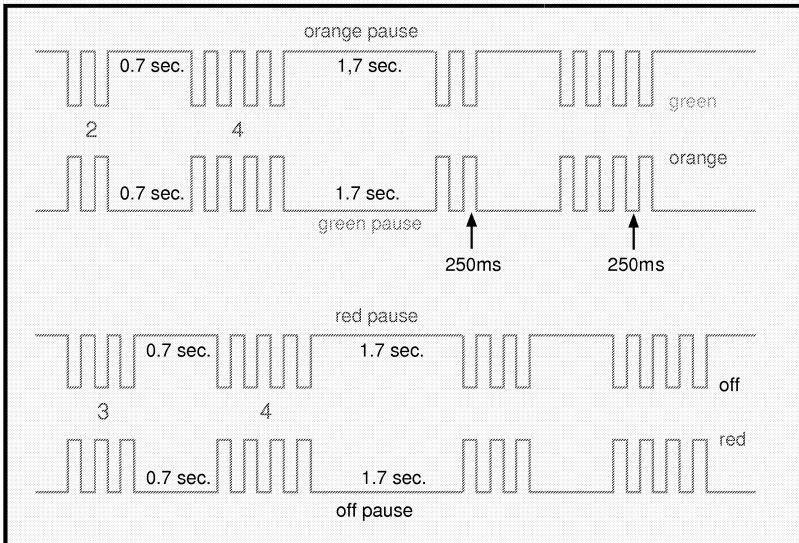
## GENERAL INFORMATION - LED BEHAVIOUR

### LED FLASHES

Error message transmission.

The error codes are signalled by the TV's red LED .

Count the number of flashes : the error code is two burst separated by a pause of 0.7 sec. and repeated four times. There is 1.7 sec between each codes sequence.

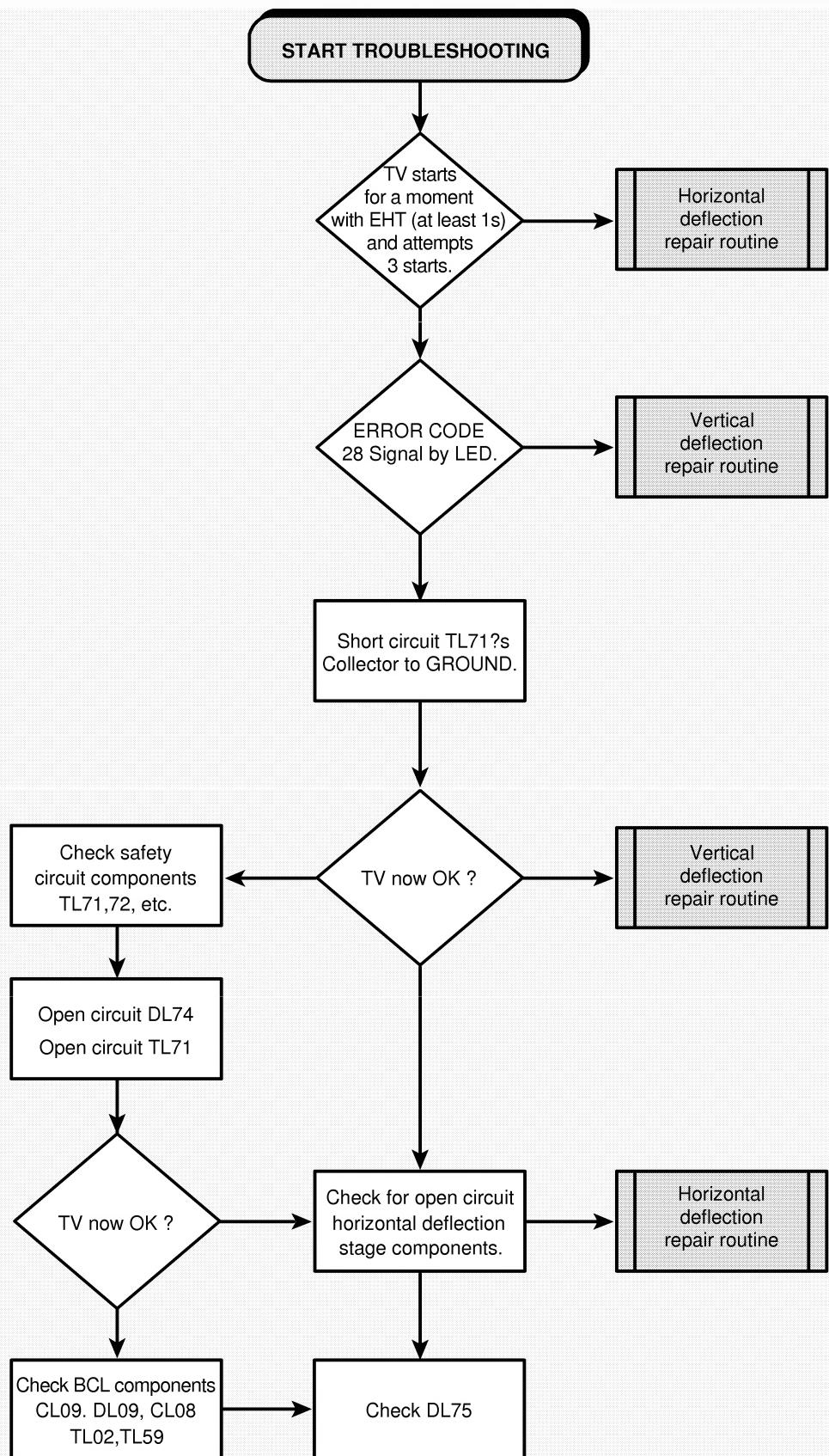


Currently all ICC17 TV sets are fitted with a Bicoloured LED, the red part is the Standby LED whilst, the green part is directly connected to the switched +8V supply. Therefore, the colour of the LED will depend upon the state of this voltage, the chart below gives the corresponding LED-colours:

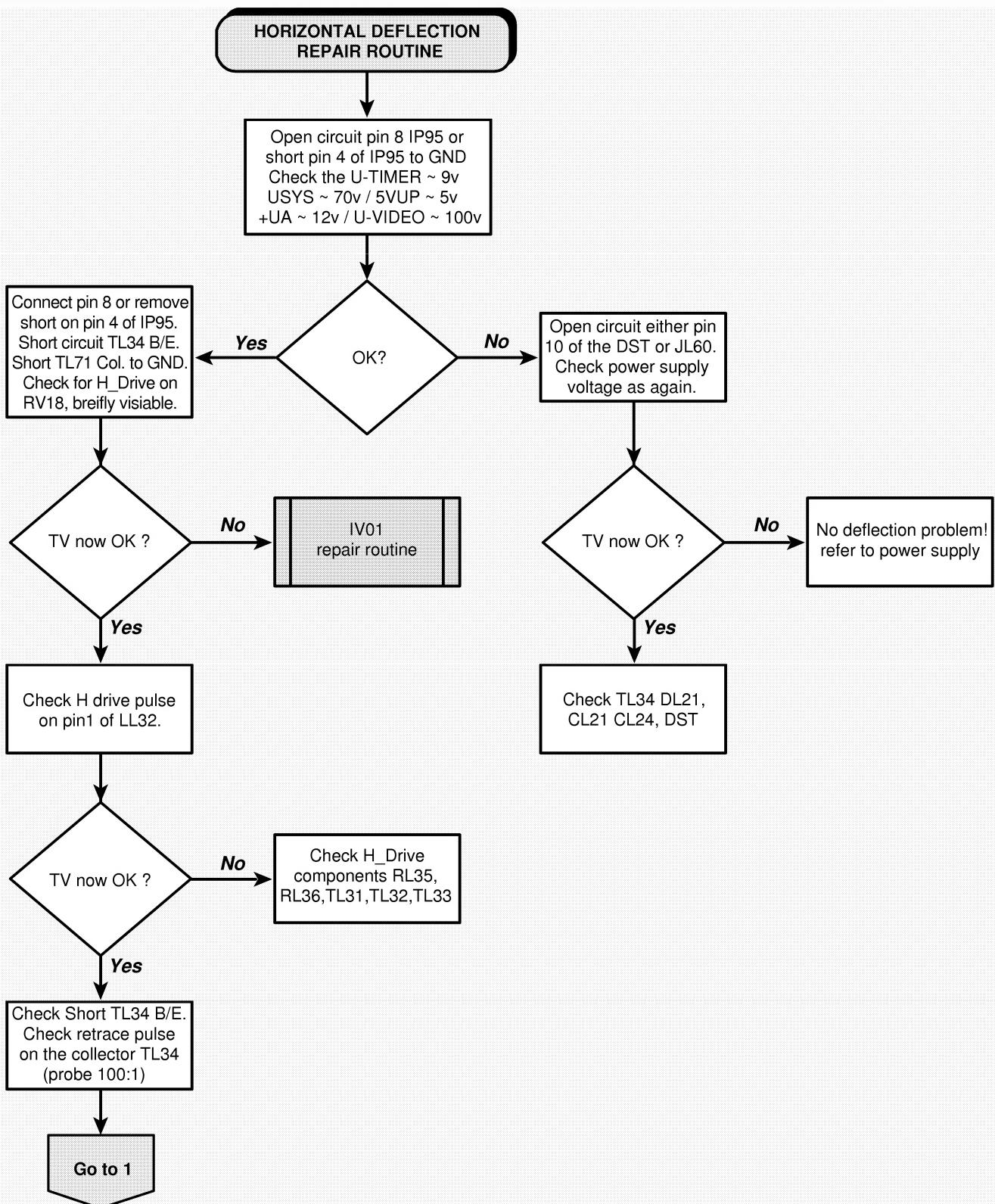
	LED-port	
switched +8 V	off	on
on	green	orange
off	off	red

CODES	DEFAULTS
12	AUDIO-DPL DOES NOT ANSWER
14	TDA8855H DOES NOT ANSWER
15	AUDIO-MSP PROCESSOR NO LONGER RESPONDING
19	TUNER DOES NOT ANSWER
21	SDA LINE BEING HELD LOW
23	CLOCK HELD AT LOW LEVEL, SCL LINE HELD AT A LOW LEVEL
25	SWITCHED 5V NOT AVAILABLE
26	TUBE DOES NOT GET WARM IN TIME
27	THE DEFLECTION STAGE HAS DETECTED A FAULT ON MORE THAN THREE OCCASIONS
28	TDA VERTICAL GUARD VOLTAGE EXCEEDED
29	TDA HORIZONTAL GUARD VOLTAGE EXCEEDED
31	INTERNAL SOFTWARE ERROR
32	A SOFTWARE-TIMER HAS BEEN REQUESTED, BUT IS NOT YET AVAILABLE
34	THE NVM CHIP DOES NOT ANSWER
35	+13V IS NOT AVAILABLE
36	WRONG NVRAM ADDRESS PASSED TO THE BUS - HANDLER
37	UNEXPECTED LEVEL ON NMI (INTERRUPT) LINE FOUND (POSSIBLE CAUSE : TUBE FLASHOVER)
38	HEAP FULL
41	BUS (DATA LINE) NOT RECOVERABLE

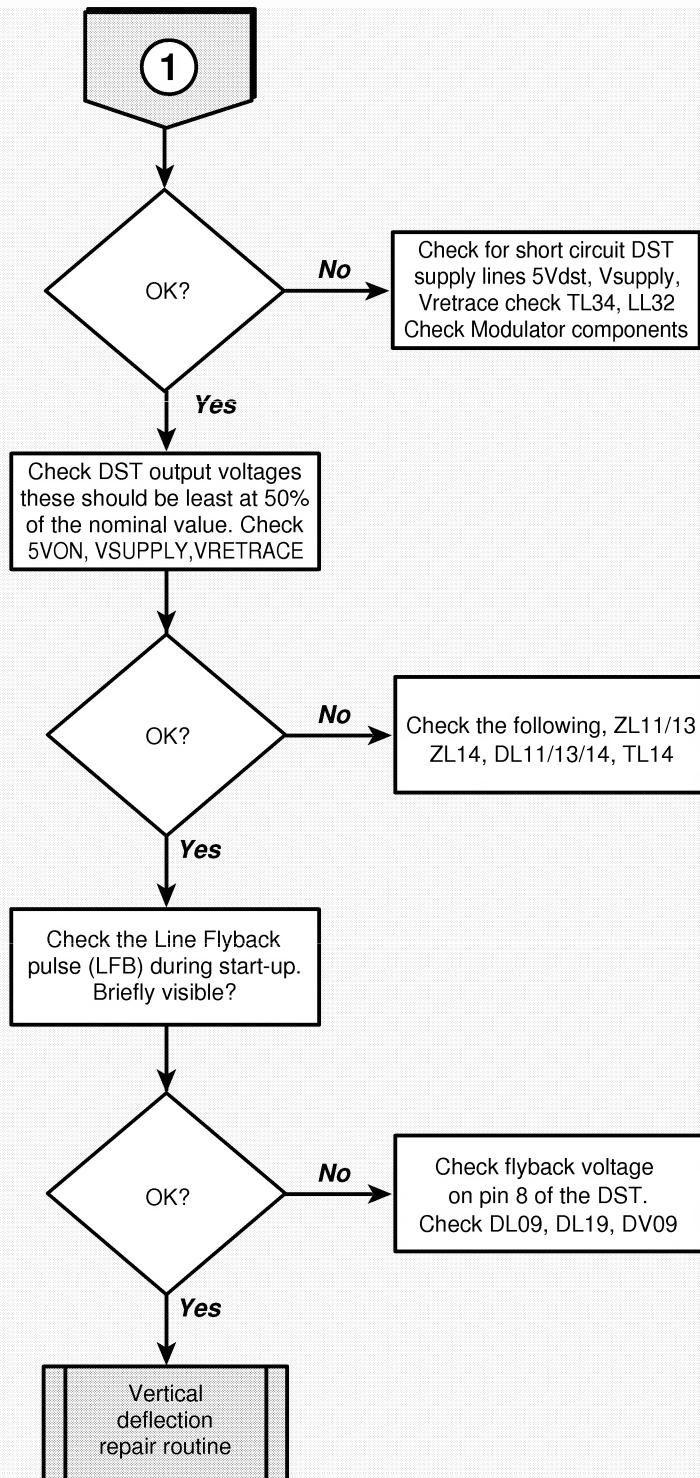
## DEFLECTION CIRCUIT CHECK



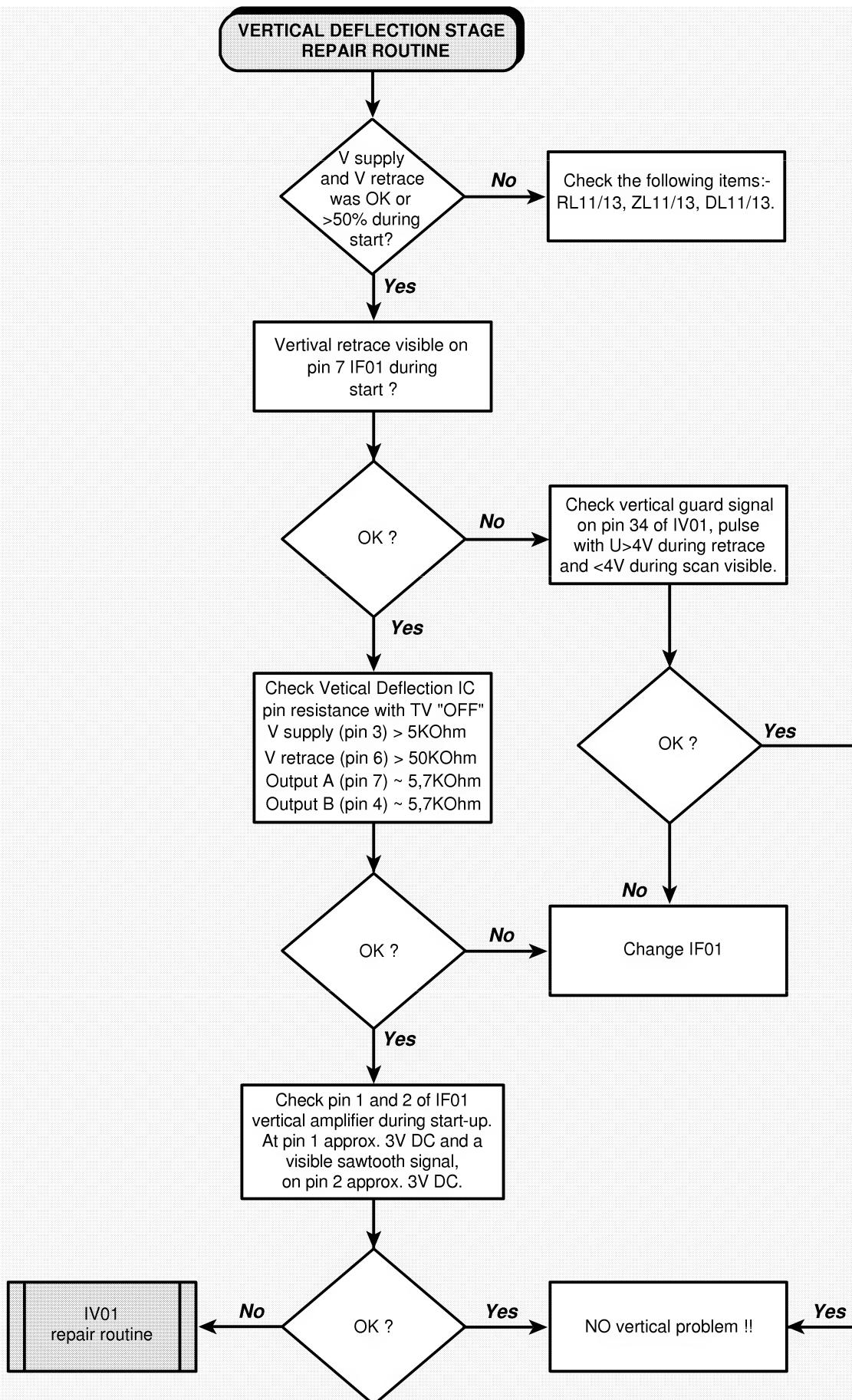
## DEFLECTION CIRCUIT CHECK



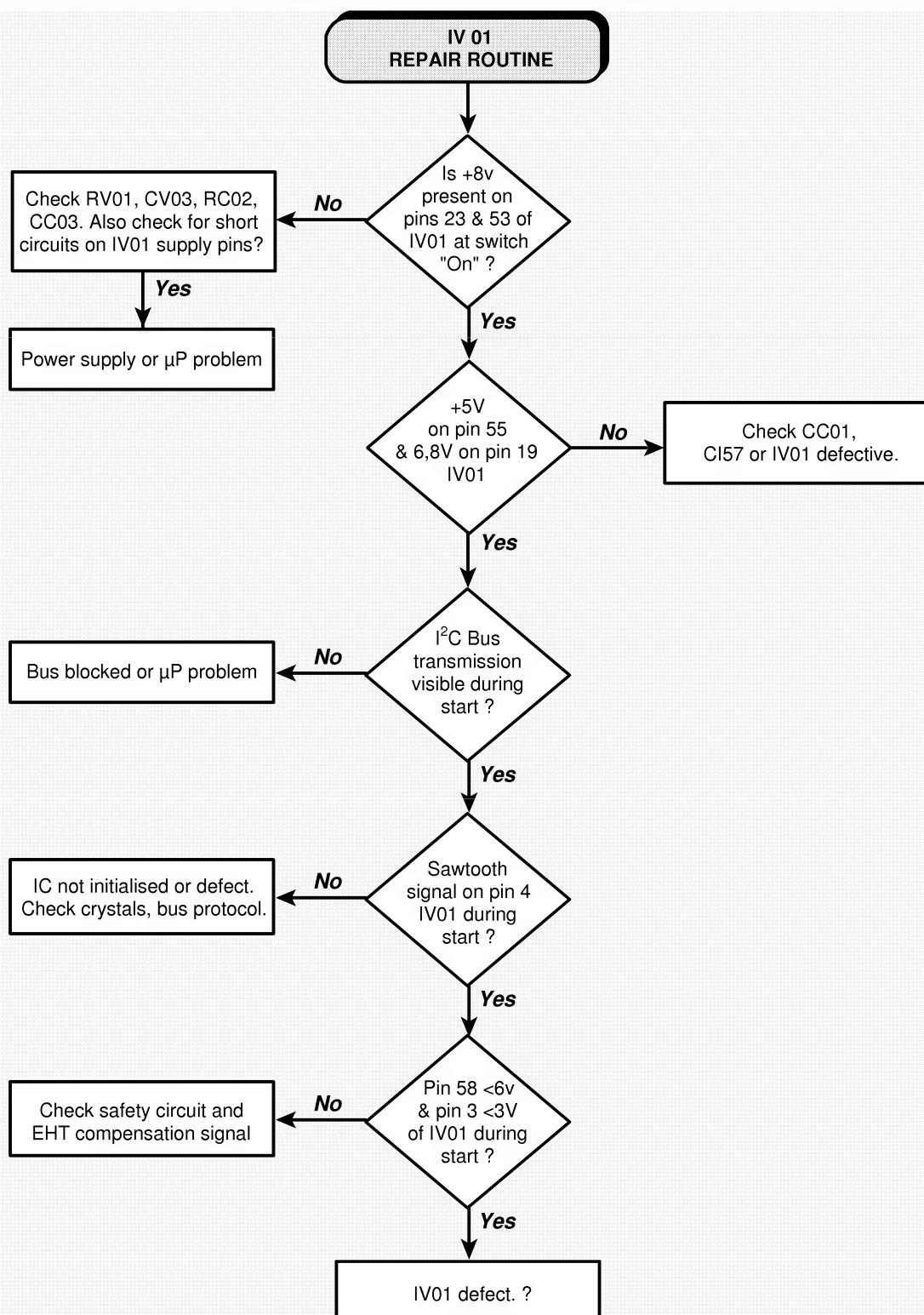
## DEFLECTION CIRCUIT CHECK



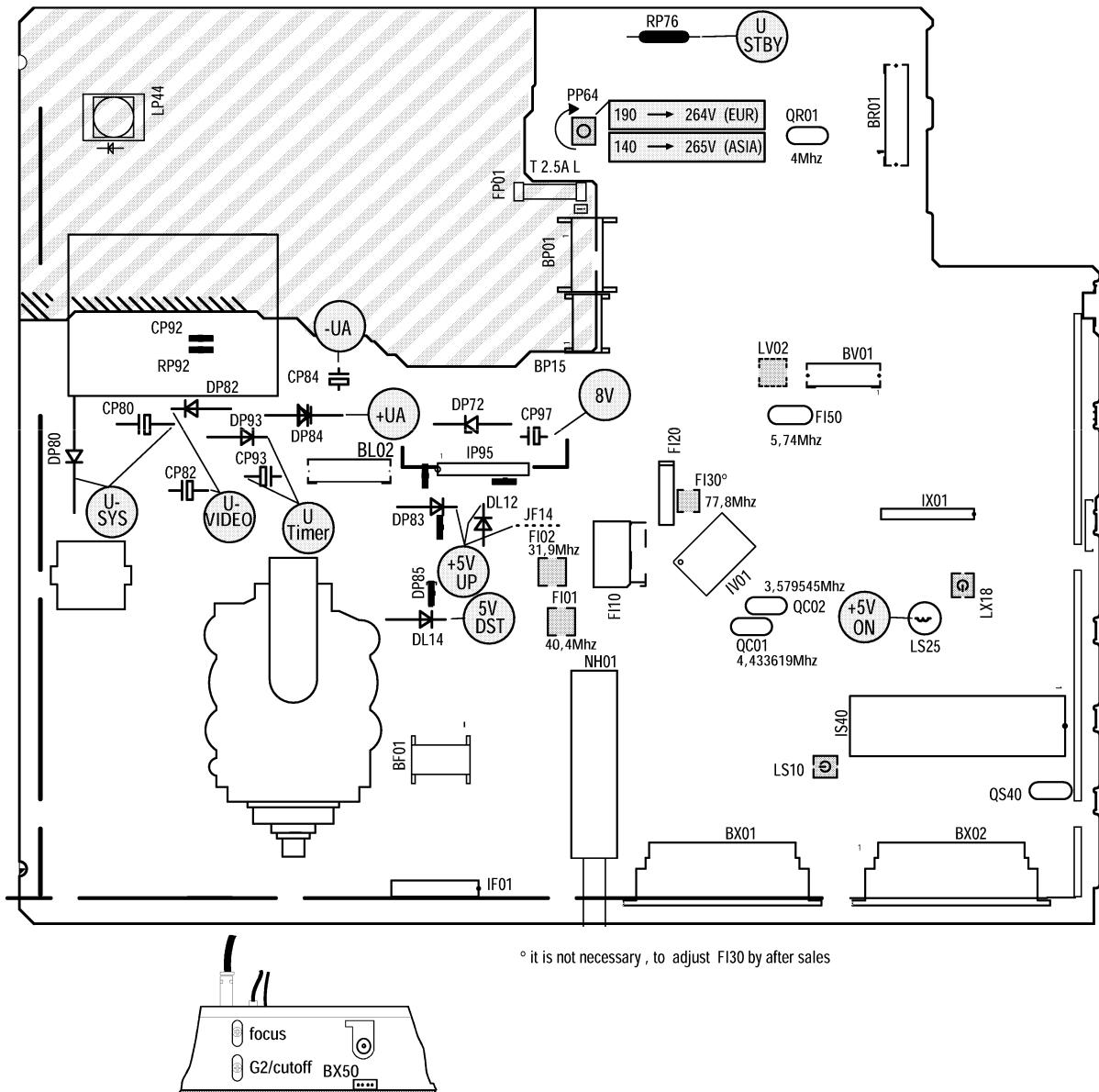
## DEFLECTION CIRCUIT CHECK



## DEFLECTION CIRCUIT CHECK



## **LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES**

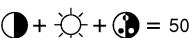
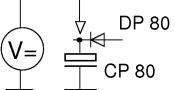
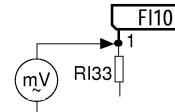
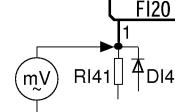
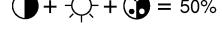
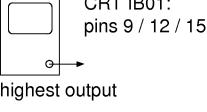
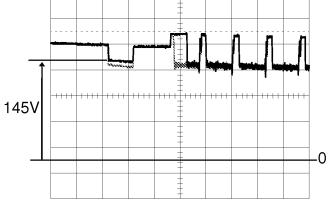
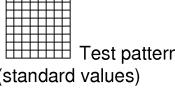


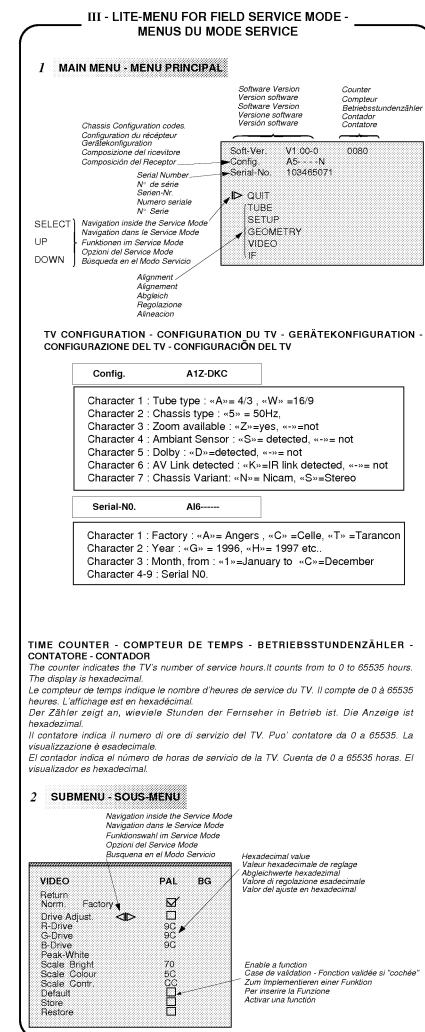
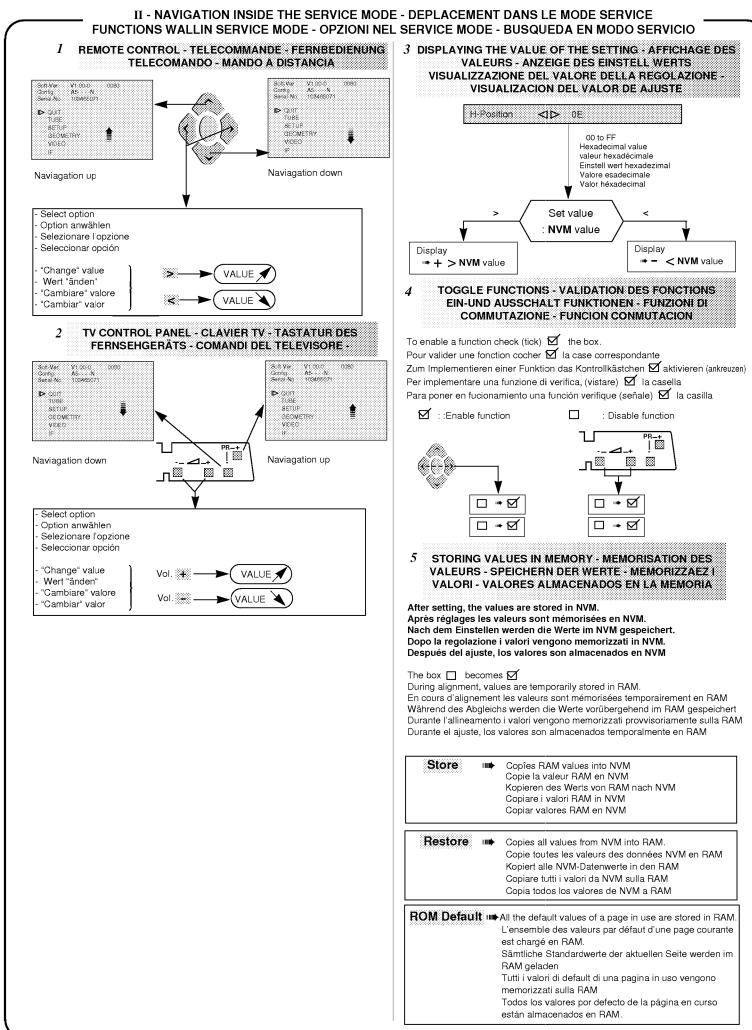
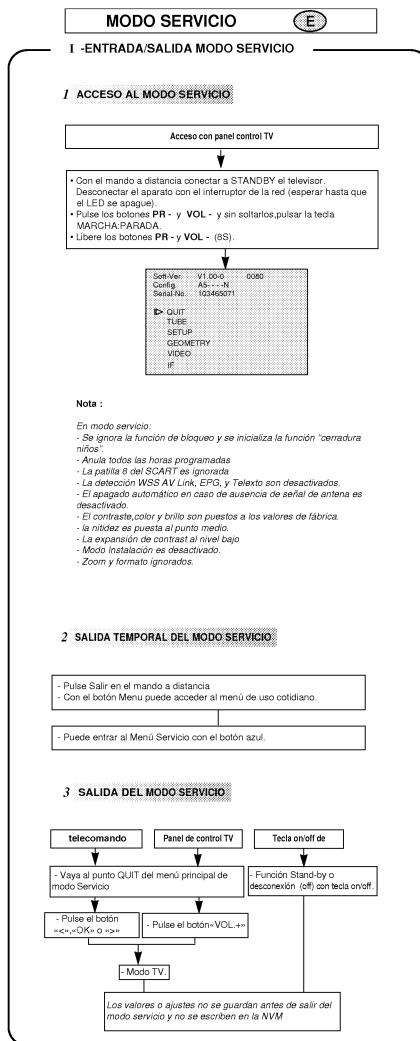
Part of board connected to mains supply.  
Partie du châssis reliée au secteur.  
Primärseite des Netzteils.  
Parte dello châssis collegata alla rete.  
Parte del châssis conectada a la red.



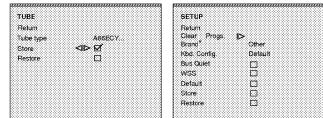
- Use isolating mains transformer -
- Utiliser un transformateur isolateur du secteur -
- Trenntrafo verwenden -
- Utilizar un transformador aislador de red -
- Utilizzare un trasformatore per isolarsi dalla rete

# ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

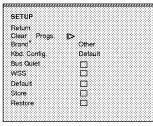
U Sys	PP 64	 TV to AV1 : Black test pattern		<table border="1"> <thead> <tr> <th>Tube</th><th>Format</th><th>Usys</th><th>Jumper</th><th>RL65</th></tr> </thead> <tbody> <tr><td>A51EBV13X01</td><td>4:3</td><td>128V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A51EFS83X191</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A59EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24K</td></tr> <tr><td>A66EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24K</td></tr> <tr><td>A59EGD048X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A68EGD038X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A68EGD038X70</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A68AGA25X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A80AEJ15X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>A80AEJ15X99</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4K7</td></tr> <tr><td>W56EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47K</td></tr> <tr><td>W66EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47K</td></tr> <tr><td>W76EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47K</td></tr> </tbody> </table>	Tube	Format	Usys	Jumper	RL65	A51EBV13X01	4:3	128V+/-0,5V	JL80	4K7	A51EFS83X191	4:3	126V+/-0,5V	JL80	4K7	A59EHJ43X15	4:3	132V+/-0,5V	JL81	24K	A66EHJ43X15	4:3	132V+/-0,5V	JL81	24K	A59EGD048X30	4:3	126V+/-0,5V	JL80	4K7	A68EGD038X30	4:3	126V+/-0,5V	JL80	4K7	A68EGD038X70	4:3	126V+/-0,5V	JL80	4K7	A68AGA25X01	4:3	126V+/-0,5V	JL80	4K7	A80AEJ15X01	4:3	126V+/-0,5V	JL80	4K7	A80AEJ15X99	4:3	126V+/-0,5V	JL80	4K7	W56EGV023X015	16:9	138V+/-0,5V	JL82	47K	W66EGV023X015	16:9	138V+/-0,5V	JL82	47K	W76EGV023X015	16:9	138V+/-0,5V	JL82	47K
Tube	Format	Usys	Jumper	RL65																																																																						
A51EBV13X01	4:3	128V+/-0,5V	JL80	4K7																																																																						
A51EFS83X191	4:3	126V+/-0,5V	JL80	4K7																																																																						
A59EHJ43X15	4:3	132V+/-0,5V	JL81	24K																																																																						
A66EHJ43X15	4:3	132V+/-0,5V	JL81	24K																																																																						
A59EGD048X30	4:3	126V+/-0,5V	JL80	4K7																																																																						
A68EGD038X30	4:3	126V+/-0,5V	JL80	4K7																																																																						
A68EGD038X70	4:3	126V+/-0,5V	JL80	4K7																																																																						
A68AGA25X01	4:3	126V+/-0,5V	JL80	4K7																																																																						
A80AEJ15X01	4:3	126V+/-0,5V	JL80	4K7																																																																						
A80AEJ15X99	4:3	126V+/-0,5V	JL80	4K7																																																																						
W56EGV023X015	16:9	138V+/-0,5V	JL82	47K																																																																						
W66EGV023X015	16:9	138V+/-0,5V	JL82	47K																																																																						
W76EGV023X015	16:9	138V+/-0,5V	JL82	47K																																																																						
IF Alignment Alignement FI	trap 40.4Mhz FI 01	Switch set to standard BG Commuter le TV au standard BG		Adjust FI01 for minimum value at 40,4Mhz																																																																						
	trap 31.9Mhz FI 02	IF Signal 40,4MHz (BG) 31,9MHz (BG)		Adjust FI02 for minimum value at 31,9Mhz																																																																						
U G2 / cutoff	SCREEN	 AV (no Signal, black screen)																																																																								
FOCUS	FOCUS LL05			Sharp picture																																																																						



## ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMIENTO DI ALINEACION

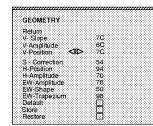


\* according to mode - other mode - "panel model".  
Second model - Segun modelo.



Return  
Clear  
Pregr.  
Other  
Bus  
Config  
Default  
Restore

Press < > remote control. Vol +/- TV keyb.



Return  
Close this sub-menu and returns to the "Main Service Menu".  
Return zu menu principal.  
Retour au menu principal.  
Retorno al menú principal.  
Svartur til hólmuna og til dals  
Servicemodus-Menus erstchen.  
Chiuso il sottomenu e lo apre il menu principale Field Service Mode.  
Cierre el submenú y lo abre el menú principal Field Service Mode.  
Gå tilbake til hovedmenyen og tilbake til dals  
Service Modus erneut.  
Press < > remote control. Vol +/- TV keyb.

Clear Prog.

Clears all programs STORED in memory and returns to the "Main Service Menu".  
Efface tous les programmes enregistrés dans la mémoire et renvoie au "Menu Service Principal".  
Entfernt alle gespeicherten Programme und kehrt zum "Hauptmenü des Servicemodus" zurück.  
Chiude tutti i programmi memorizzati e ritorna al "menu principale Service Mode".  
Cierre y elimina todos los programas almacenados en la memoria y vuelve al menú principal "STORE".

See below for tube type code.

Defeat the tube exactly at changeover de NVM.  
Défaire l'écran exactement au changement de NVM.  
Entfernen Sie den Bildschirm genau am Wechsel der NVM.  
Rimuovere lo schermo esattamente alla sostituzione della NVM.  
Defeat the tube exactly at changeover de NVM.  
Defeat the tube exactly at changeover de NVM.

Les nouvelles valeurs de tube (tube values) sont actives de suite.  
Les nouvelles valeurs de tube (tube values) sont immédiatement actives.  
Die neuen Werte des Bildschirms (Bildschirmwerte) werden sofort aktiv.  
Le nuovi valori dello schermo (valori dello schermo) sono attivi immediatamente.  
Los nuevos valores de tubo (tube values) son activos de inmediato.

Clear Geometry and Video mode settings.  
Efface la géométrie et les modes Vidéo.  
Geometrie- und Videomodus werden gelöscht.  
Rimuovere la geometria e i modi video.  
Borrar y reiniciar los parámetros de geometría y video.

Check the "Brand" - Thomson, Telefunken, Other Factory adjusted.

Change some parameters to factory settings.  
Réinitialiser les paramètres à l'usine.  
Ändern einiger Parameter auf die Fabrikinstellungen.  
Ripristinare alcuni parametri alla impostazione di fabbrica.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the brightness.  
Ajuste la brillantez.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

Adjusts the trapezoid.  
Ajuste la trapezoidal.

Adjusts the angle.  
Ajuste el ángulo.

Adjusts the scale.  
Ajuste la escala.

Adjusts the contrast.  
Ajuste el contraste.

Adjusts the color.  
Ajuste el color.

Adjusts the sharpness.  
Ajuste la agudeza.

Adjusts the horizontal position.  
Ajuste la posición horizontal.

Adjusts the vertical position.  
Ajuste la posición vertical.

Adjusts the size.  
Ajuste el tamaño.

Adjusts the shape.  
Ajuste la forma.

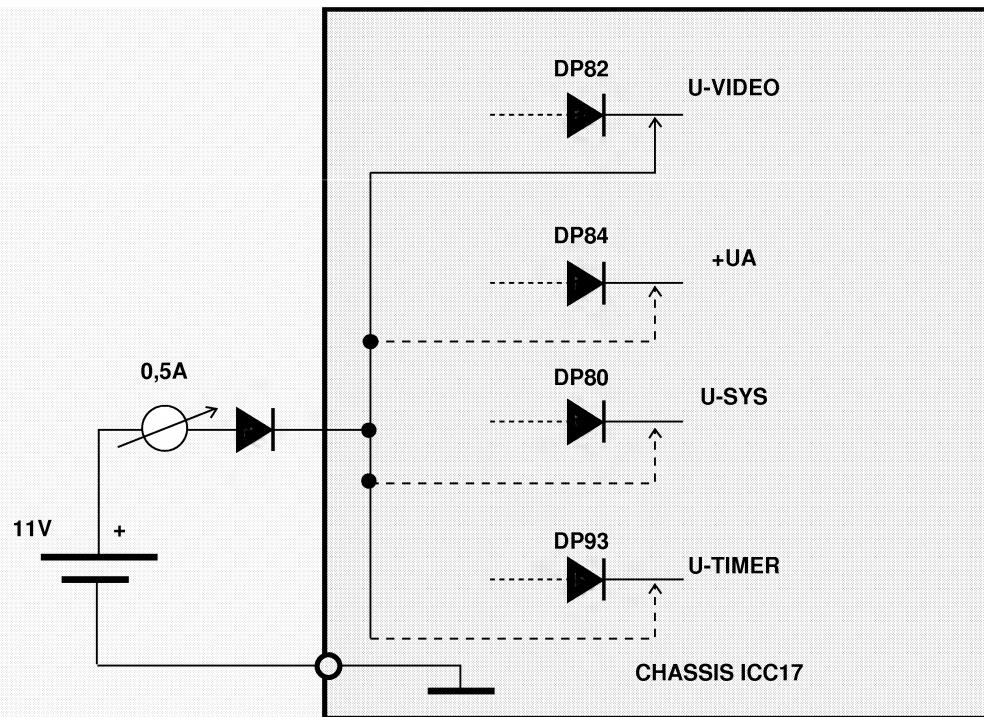
Adjusts the trapezoid.  
Ajuste la trapez

## SECONDARY DC-VOLTAGES

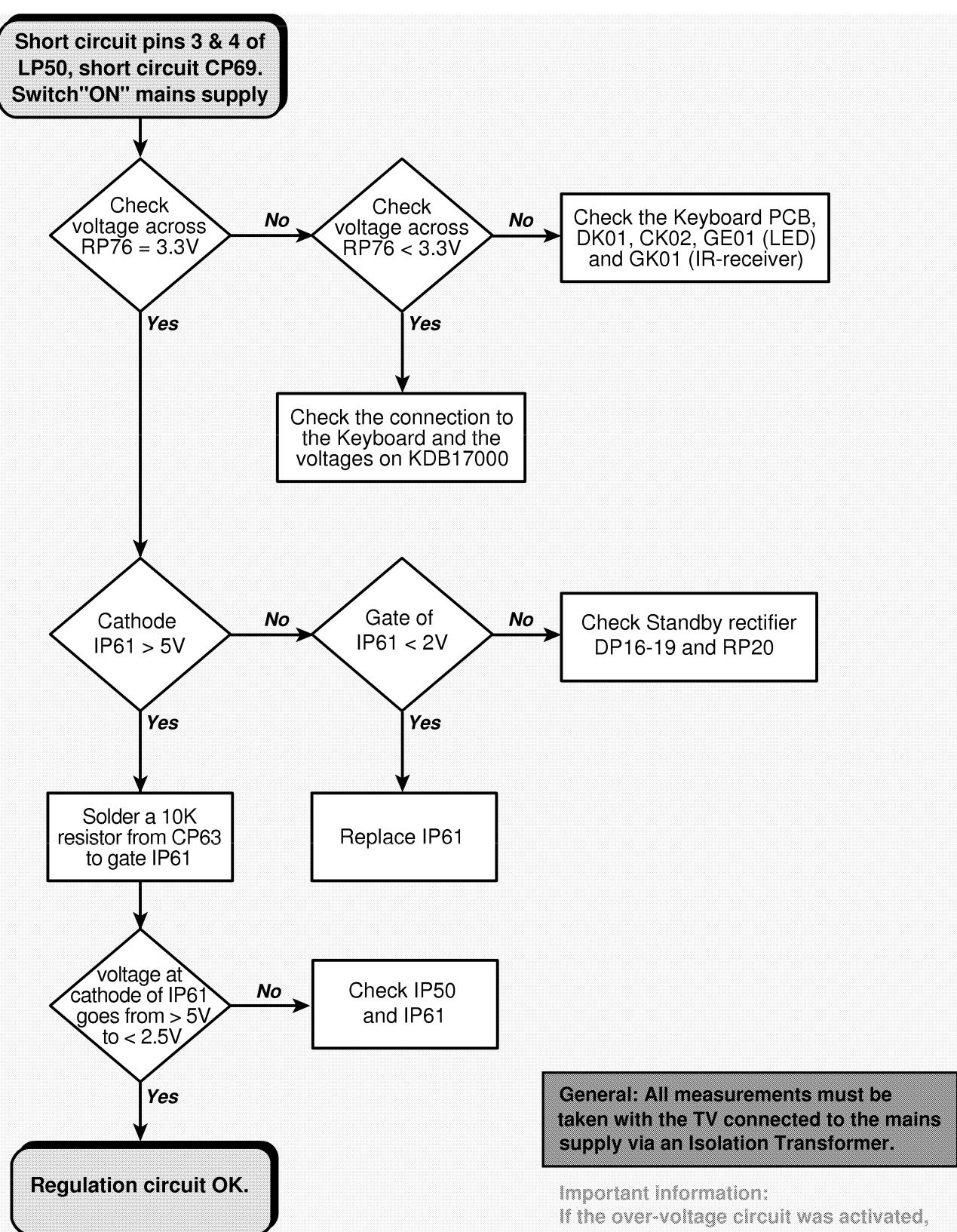
All measurements in this chapter must be done WITHOUT the mains supply connected to the TV.

Test circuit:

The external voltage source is provided by a variable DC-power supply with its output voltage set to 11V and the current limitation set to 500mA's. The negative terminal of the DC-power supply must be directly connected to the chassis secondary ground plane. The positive terminal of the DC-power supply is first connected to an ammeter and then the anode of an isolation diode. The cathode of the isolation diode is then connected to the load on the chassis as shown below. Measure the current drawn by each load tested.



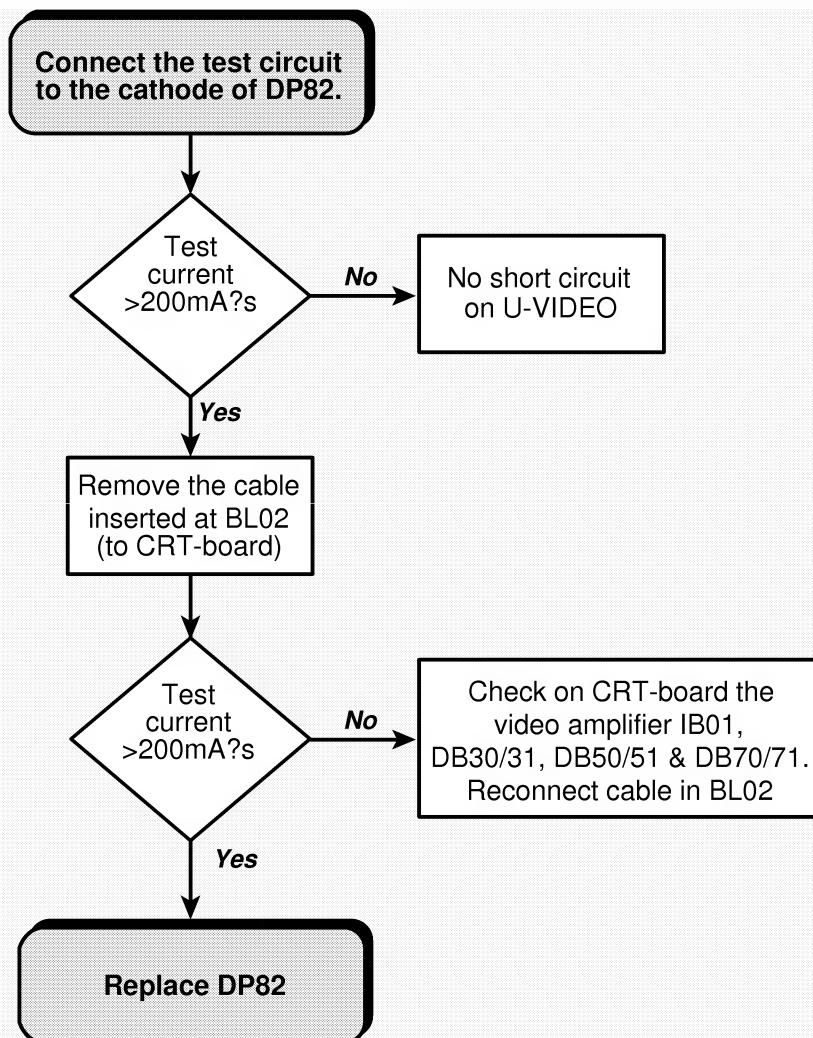
## STANDBY POWER SUPPLY - SECONDARY SIDE



After finishing this test, please remove the short circuits from pins 3/4 of LP50 and CP69 also remove the 10k resistor.

**Important information:**  
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

## POWER SUPPLY - SECONDARY SIDE : U-VIDEO

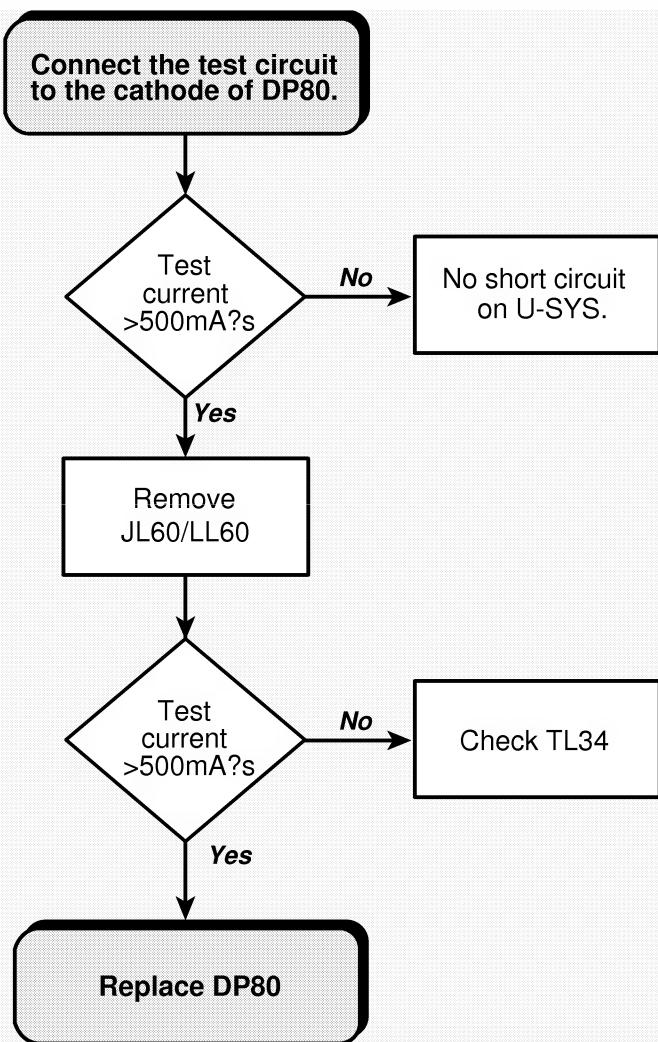


After finishing this test, please replace cable BL02 and remove the test circuit.

**General:** All measurements must be taken with the TV connected to the mains supply via an isolation Transformer.

**Important information:**  
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

## POWER SUPPLY - SECONDARY SIDE : U-SYS

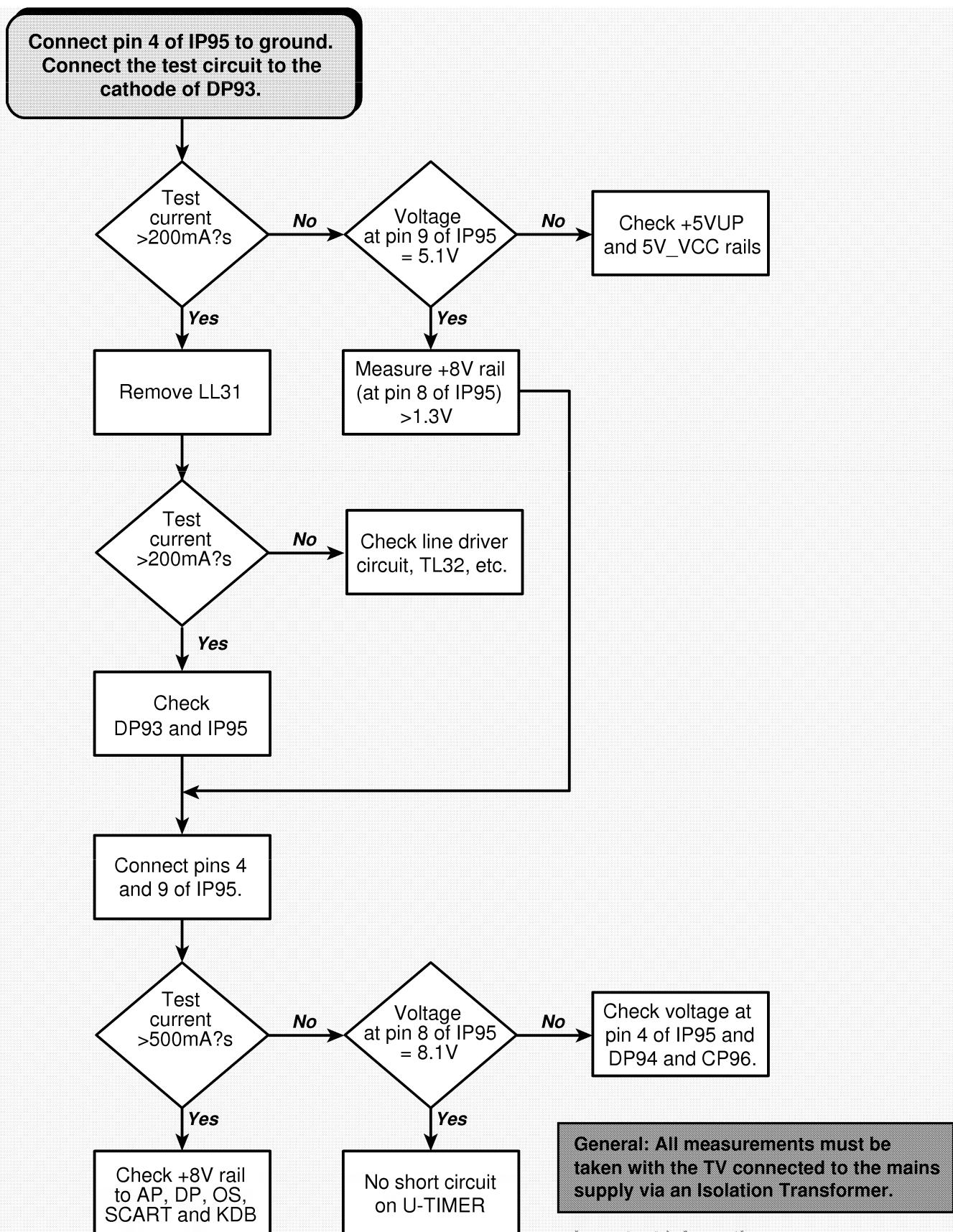


After finishing this test, please replace JL60/LL60 and remove the test circuit.

**General:** All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer

**Important information:**  
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

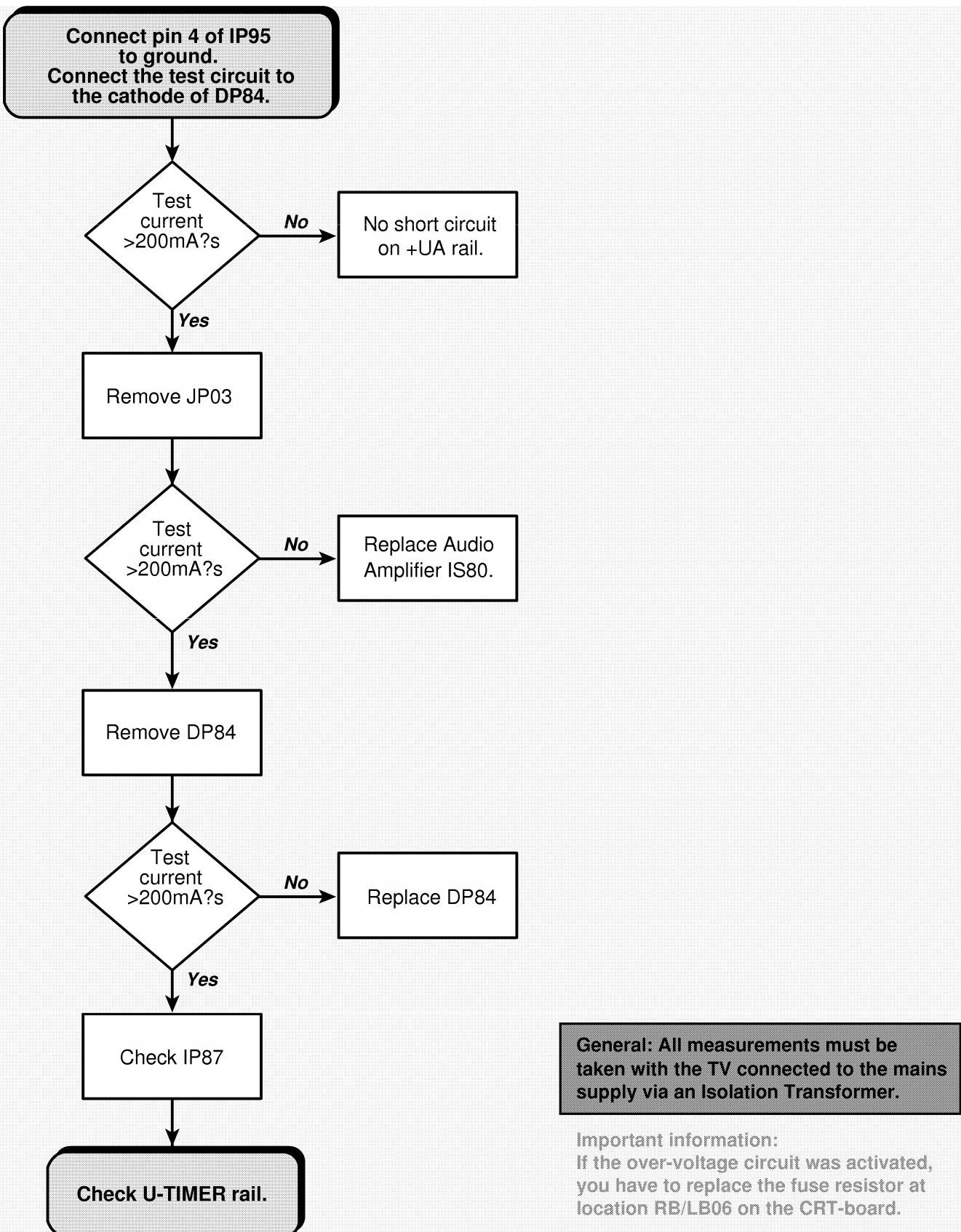
## POWER SUPPLY - SECONDARY SIDE : U-TIMER



After finishing this test, please replace LL31, remove the link between pins 4 and 9 of IP95 and remove the test circuit.

**Important information:**  
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

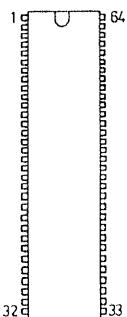
## POWER SUPPLY - SECONDARY SIDE : +UA



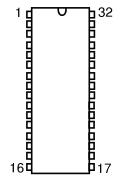
**LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS- ABKÜRZUNGEN  
LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES**

- **+USYS:** System voltage
- **+U\_VIDEO:** Video drive voltage for the CRT board
- **+ STDBY\_ON:** Standby data (0V standby , 0.6v switched ON)
- **+5V DST:** 5v unregulated voltage from the DST  
to supply the tuner and audio MSP device
- **+5V ON:** 5v regulated voltage from the DST  
to supply the tuner and audio MSP device
- **+5V UP :** Microprocessor supply voltage
- **BCL:** Beam current limiting information
- **CVBS:** Composite video / luminance signal
- **CVBS\_OUT:** Composite video output
- **CVBS\_TXT:** Composite video for teletext extraction
- **DEGAUSS:** Degauss signal
- **EW :** East / West
- **FORMAT / BC:** Full white control DATA depending on  
16/9 selected format
- **HDRV:** Horizontal deflection signal
- **HTR1 / HTR2:** Heater voltage from the DST to CRT PCB
- **LFB:** Line Fast Blanking
- **MUTE :** Mutes audio amplifiers
- **PO:** "Power ON " IP95 : reset activated and output = 8v  
"PO" = 5v when TV is working in normally
- **POWER\_FAIL:** Detection of mains supply and deflection stage failures
- **RESET:** Microprocessor reset signal
- **SAFETY:** Safety information from the deflection stage
- **SCL:** Serial Clock
- **SDA :** Serial Data
- **SIF:** Sound IF
- **TRAP\_INFO:** 31.4Mhz IF trap activation
- **U\_STANDBY:** Standby voltage
- **U\_DRIVER:** Horizontal sync signal from TDA8855H
- **U\_TIMER:** 11v voltage used during "Switch ON " phase  
and "Wake Up" mode
- **V\_FLB:** Vertical flyback reference for the microprocessor
- **V\_GUARD:** Safety data generated by the vertical amplifier  
TDA 8351
- **V\_RETRACE:** 42 / 48volts (depending on tube type) generated by  
the DST and used for vertical blanking
- **V\_SUPPLY:** 13.5 to 15.5 volts (depending on tube type) generated  
by the DST

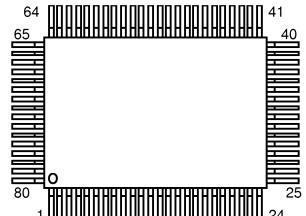
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE -**  
**CIRCUITS INGRES ET TRANSISTORS**  
**INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN -**  
**CIRCUITI INTEGRATI TRANSISTOR**  
**CIRCUITOS INTEGRADOS Y TRANSISTORES**



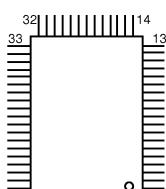
MPS3400C-PP-C6



MX27C200MC-12



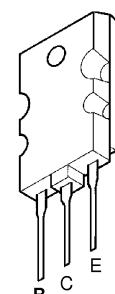
ST92R195



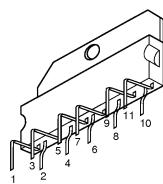
TDA8855H



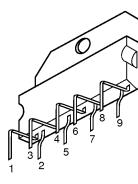
TDA8351



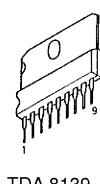
BUH516TH16



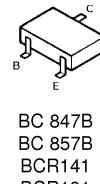
TDA7269



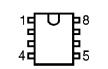
TDA6107Q



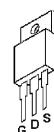
TDA 8139



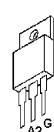
BC 847B  
BC 857B  
BCR141  
BCR191  
DTC113ZK  
DTC144EK  
TN1401



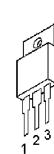
ST24C08-M  
TS3702CD



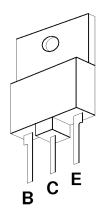
STP6 NA60F1



BT806 -600C



MC7812/CT



BD241C



BC 337  
BC 546B  
BC 547B



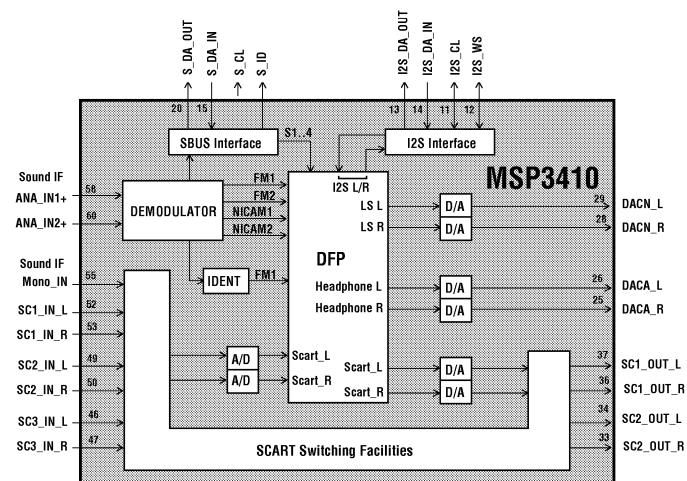
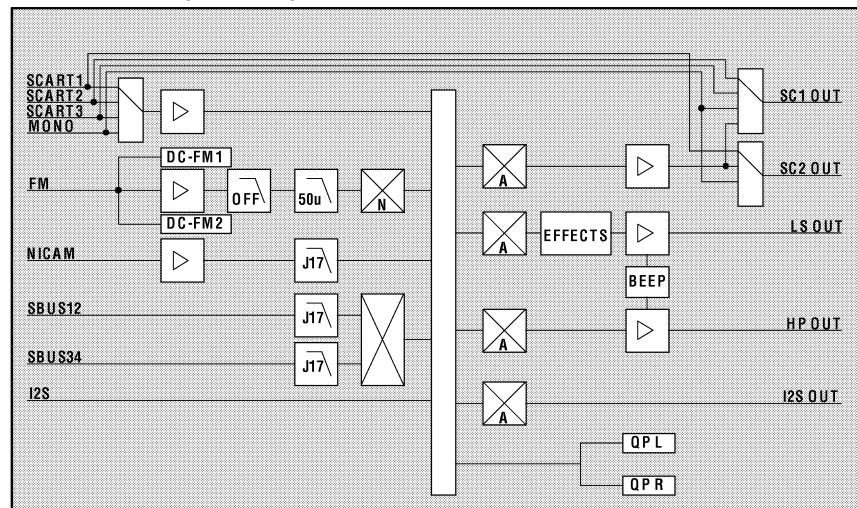
BF 422  
BF423  
2SA1020Y  
2SC2236Y



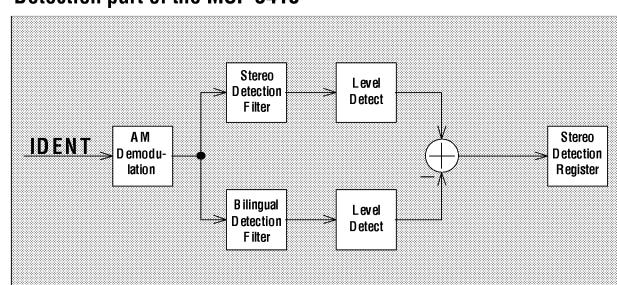
MPS750

**INTEGRATED CIRCUITS BLOCK DIAGRAMS -  
SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -  
INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBILDER  
SCHEMA A BLOCCHI DEI CIRCUITI INTEGRATI -  
VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

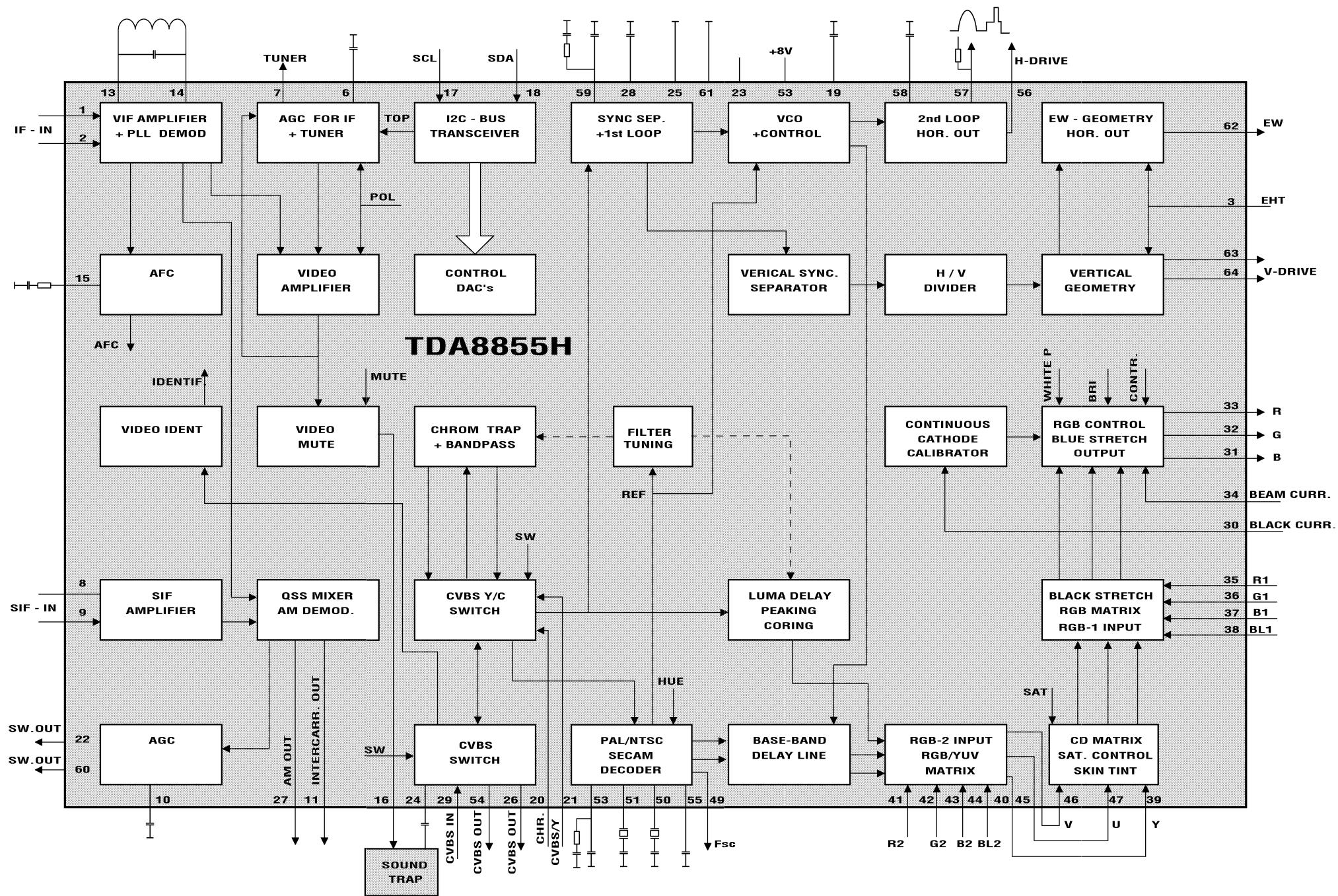
**Audio baseband processing of the MSP3410**



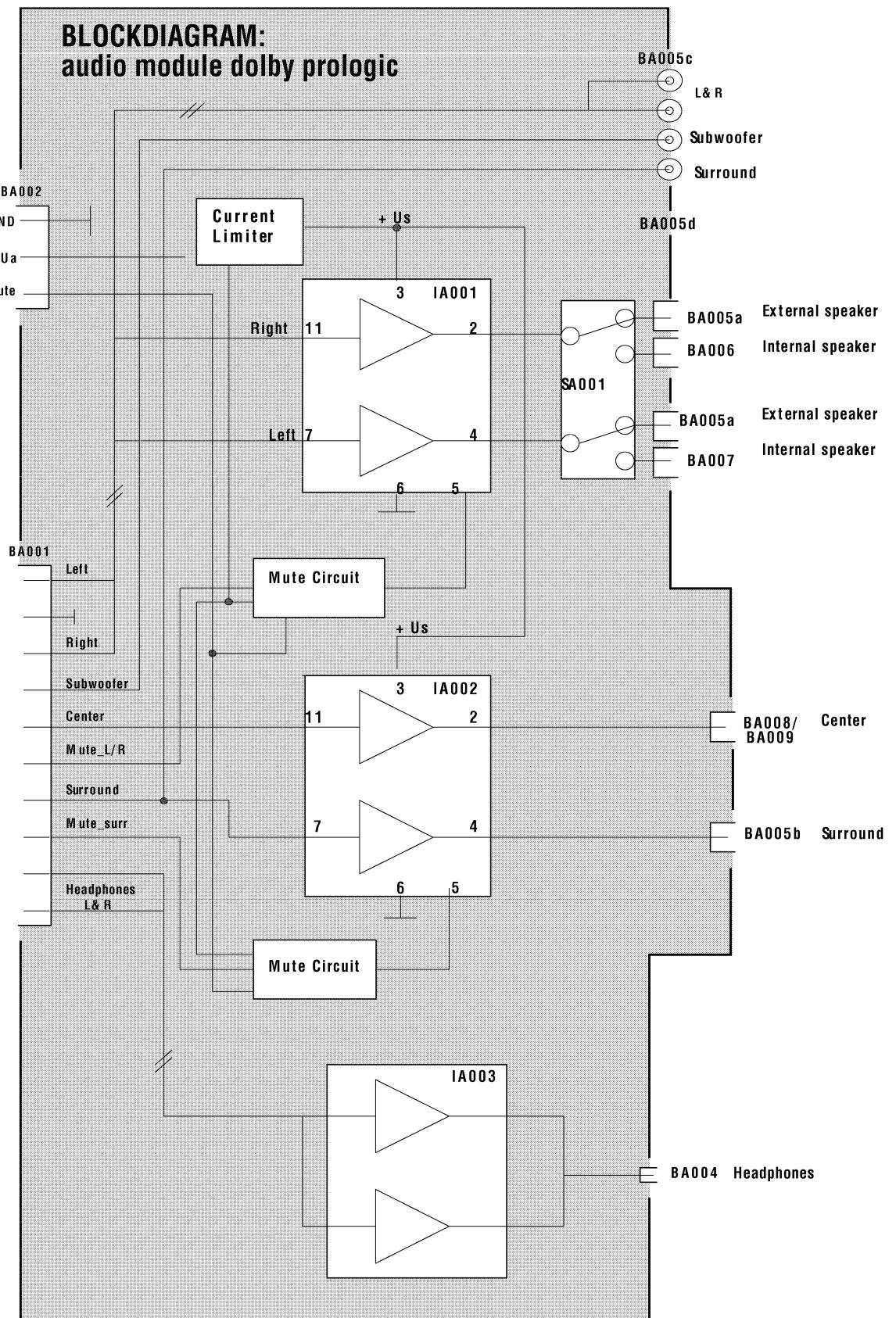
**Detection part of the MSP 3410**



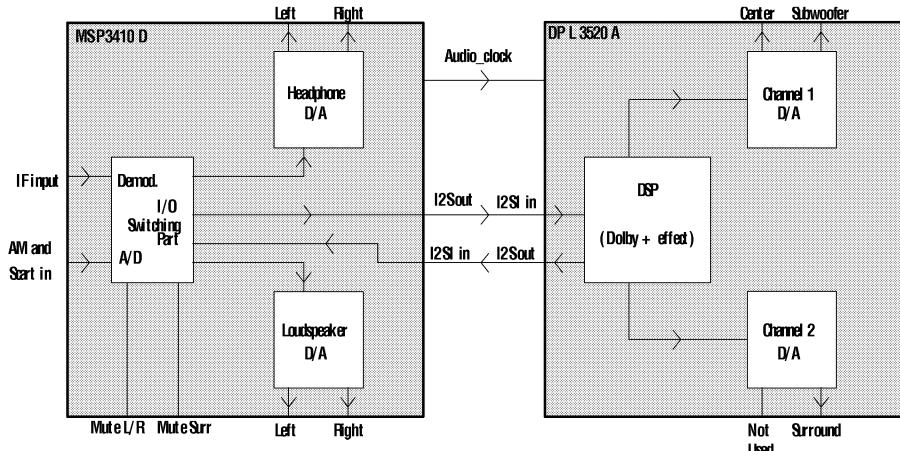
IV01 TDA 8855H



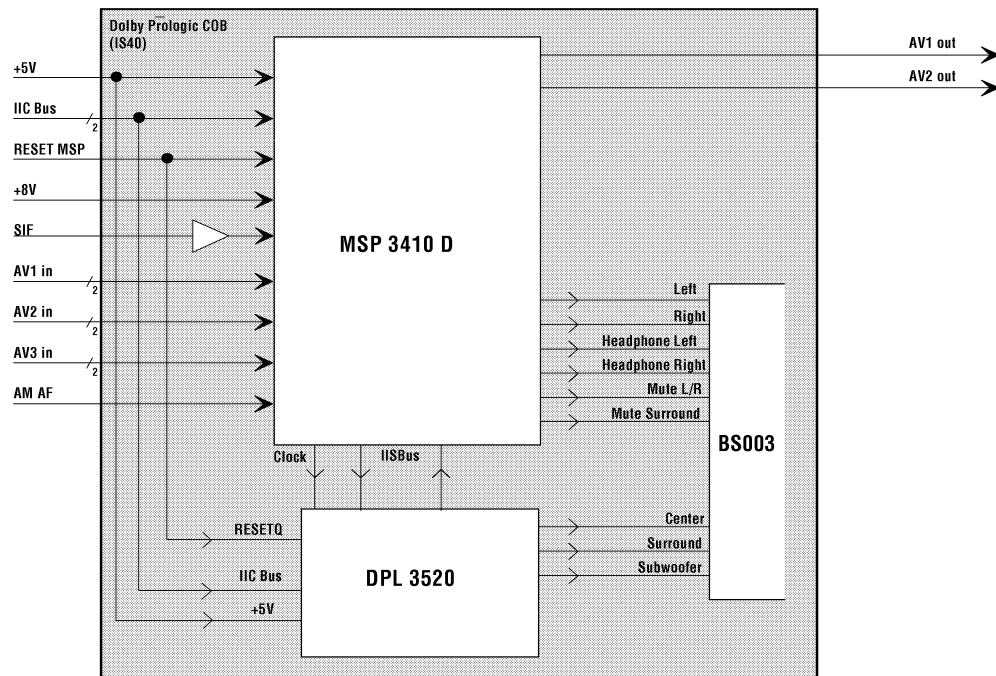
**BLOCK DIAGRAM (AUDIO MODULE DOLBY PROLOGIC)**  
**SCHEMA SYNOPTIQUE (AUDIO MODULE DOLBY PROLOGIC)**  
**BLOCKSCHALTBILD (AUDIO MODULE DOLBY PROLOGIC)**  
**SCHEMA A BLOCCI (AUDIO MODULE DOLBY PROLOGIC)**  
**ESQUEMA DE BLOQUES (AUDIO MODULE DOLBY PROLOGIC)**



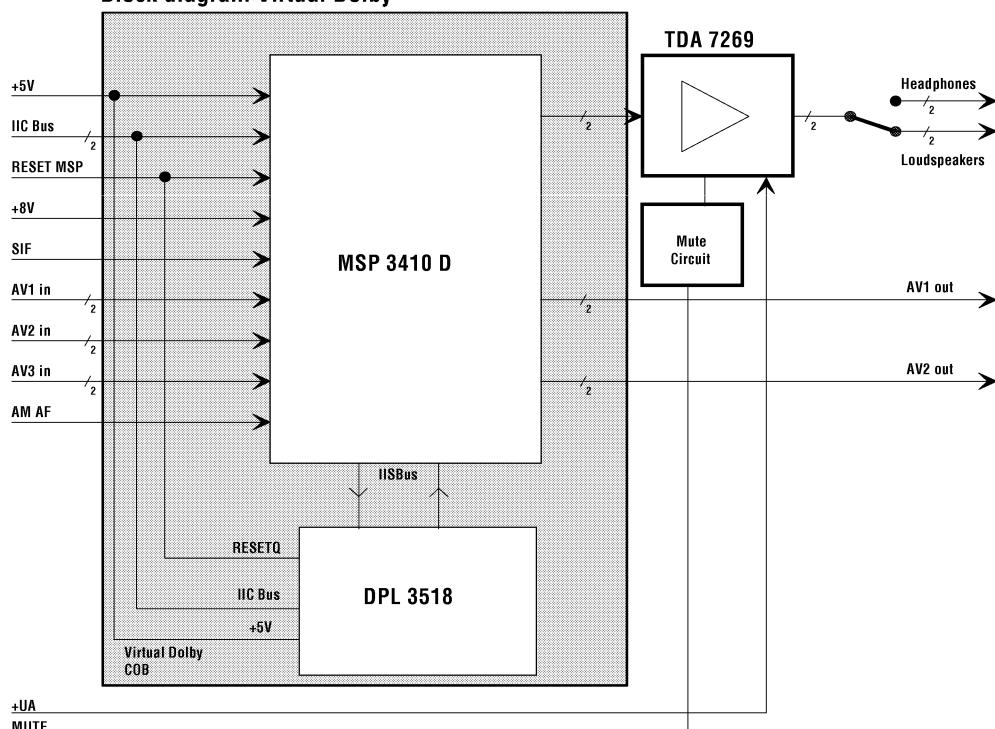
## Interface requirement audio part with Dolby Prologic



Block diagram Dolby Prologic



Block diagram Virtual Dolby





# SISTEMA DE LOS CÓDIGOS DE REPARACIÓN EACEM-IRIS

**EACEM** 

	1	INACTIVO	2	NIVEL	3	CALIDAD	4	RUIDO	
1	CONSTANTE								
2	INTERMITENTE								
3	DESPUÉS DE ALGÚN TIEMPO								
4	CALENTAR								
5	FRÍO								
6	DURANTE LA CONEXIÓN								
7	BAJO VIBRACIÓN								
8	EN AMBIENTE MEDIO/MOTOR/LLUVIOSO/NEVADO								
9	SECO								
10	DESPUÉS DE UNA CAÍDA/DANO EN EL TRANSPORTE								
11	DESPUÉS DE RELÁMPAGO								
12	SOLOMENTE ALIMENTACIÓN ESTACIONES/RED/TELÉFONO/CODIGO CANALES/BANDA DE FRECUENCIA/FAX								
13	NO RECONOCE LA BATERÍA RECARGABLE								
14	Otro problema de alimentación								
15	GENERAL								
16	PROBLEMA DE ALIMENTACIÓN O NO FUNCIONA	110	PROBLEMA DE CARGA	130	PROBLEMA DE LA INDICACIÓN	140	RUIDO ANORMAL		
17	NO HAY ALIMENTACIÓN CON ADAPTADOR DE CA.	111	NO HAY ALIMENTACIÓN CON ALIMENTACIÓN DE BATERÍA.	131	FALLO EN EL INDICADOR	141	RUIDO DE DESCARGA DEL TUBO CATÓDICO		
18	NO HAY ALIMENTACIÓN CON BATERÍAS SECAS	112	TIEMPO DE CARGA MUY LARGO	132	FALLO EN LA OPERACIÓN DE LA LAMPADAVEL	142	RUIDO DE DESCARGA DEL BLOQUE DE ALTA TENSIÓN		
19	Otro problema de carga	12X		133	FALLO EN LA OPERACIÓN DEL MEDIDOR DE TENSIÓN	143	MUEBLE RUIDOSO/SONAJERA CRUJIENTE		
20	NO HAY ALIMENTACIÓN CON BATERÍAS SOLAR	115		134	FALLO EN LA OPERACIÓN DE LA INDICACIÓN	144	TRASFORMADOR/RUTER/ZUMBIOS/COMPONENTES) PERTURBACIÓN(ES)		
21	NO HAY ALIMENTACIÓN CON BATERÍAS COCHE	116		135	FALLO EN LA INDICACIÓN DE LA SINTONÍA	145	VIBRACIÓN		
22	NO HAY ALIMENTACIÓN CON BATERÍAS DE COCHE	117		136	FALLO EN LA INDICACIÓN DE LA SINTONÍA MECÁNICA	146	VIBRACIÓN		
23	NO HAY DESCONEXIÓN	118		137	FALLO EN LA INDICACIÓN DEL CODIGO DE TIEMPO	147	RUIDO DE RELOJ		
24	NO HAY DESCONEXIÓN	119		138	FALLO EN LA INDICACIÓN DE ALARMERROR	148	RUIDO CONECTAR		
25	NO HAY DESCONEXIÓN	119		139	DISPLAY DE ALARMERROR OSCURO	149	SILBIDO		
26	NO HAY DESCONEXIÓN	119		140	TIEMPO EN EL DÍA/NO MODORECTO	150	Otro problema de ruido anormal		
27	NO HAY DESCONEXIÓN	119		141	NO FUNCIÓN LUZ INTERNA	151			
28	NO HAY DESCONEXIÓN	119		142	NO INDICACIÓN DE "BEEPS"	152			
29	NO HAY DESCONEXIÓN	119		143	LA LUZ DE PRECAUCIÓN SE ILUMINA	153			
30	NO HAY DESCONEXIÓN	119		144	Otro problema de la indicación	154			
31	COMUNICACIÓN	210	NO HAY RECEPCIÓN O CONEXIÓN	220	NIVEL DE RECEPCIÓN O CONEXIÓN DÉBIL	230	PROBLEMA DE TRANSMISIÓN/CONEXIÓN	240	COMUNICACIÓN RUIDOSA
32		211	NO HAY RECEPCIÓN AM	221	RECEPCIÓN AM DÉBIL	231	NO HAY TRANSMISIÓN/CONEXIÓN DÉBIL	241	RUIDOS DE LÍNEA/OSCILACIÓN
33		212	NO HAY RECEPCIÓN FM	222	RECEPCIÓN FM DÉBIL	232	TRANSMISIÓN/CONEXIÓN DÉBIL	242	INTERFERENCIA ENTRE ESTACIONES
34		213	NO HAY RECEPCIÓN SW	223	RECEPCIÓN SW DÉBIL	233	NIVEL DE TRANSMISIÓN EXCESIVO	243	Otro problema de comunicación
35		214	NO HAY RECEPCIÓN UHF	224	RECEPCIÓN UHF DÉBIL	234	OTRO PROBLEMA DE CONEXIÓN DE BASE Y LA UNIDAD PORTÁTIL	244	RUIDOSA
36		215	NO HAY RECEPCIÓN SHF	225	RECEPCIÓN SHF DÉBIL	235	COMUNICACIÓN DÉBIL ENTRE LA UNIDAD DE BASE Y LA UNIDAD PORTÁTIL	245	
37		216	NO HAY RECEPCIÓN SHF	226	RECEPCIÓN SHF DÉBIL	236	COMUNICACIÓN DÉBIL ENTRE LA UNIDAD DE BASE Y LA UNIDAD PORTÁTIL	246	
38		217	NO HAY RECEPCIÓN VHF	227	RECEPCIÓN VHF DÉBIL	237	NO HAY TRANSMISIÓN POR PORTÁTIL	247	
39		218	NO HAY RECEPCIÓN UHF	228	RECEPCIÓN POBRE HD-TV	238	MODIFICACIÓN DE LA EMISIÓN DIGITAL	248	
40		219	NO HAY RECEPCIÓN GPS/OPS	229	RECEPCIÓN POBRE GPS/OPS	239	MODIFICACIÓN DE LA EMISIÓN DIGITAL	249	
41		220	NO HAY RECEPCIÓN DE EMISORAS DIGITALES	230	RECEPCIÓN POBRE IR	240	OTRO PROBLEMA DEL NIVEL DE RECEPCIÓN DÉBIL	250	
42		219	NO HAY SINTONIA CON EL DIAL	231	NO HAY SINTONIA CON EL DIAL	241	OTRO PROBLEMA DE LA CALIDAD DE IMAGEN	251	COMUNICACIÓN INESTABLE
43		219	NO HAY CONEXIÓN MODEM/FAX	232	NO HAY CONEXIÓN MODEM/FAX	242	OTRO PROBLEMA DE NO HAY RECEPCIÓN	252	OTRO PROBLEMA DE COMUNICACIÓN INESTABLE
44		219	OTRO PROBLEMA DE NO HAY IMAGEN	233	PROBLEMA DEL NIVEL DE IMAGEN	243	PROBLEMA DE LA CALIDAD DE IMAGEN	253	PROBLEMA DE SINTONÍA
45		310	NO HAY IMAGEN	320	PROBLEMA DEL NIVEL DE IMAGEN	330	PROBLEMA DE LA CALIDAD DE IMAGEN	340	IMAGEN RUIDOSA
46		311	NO HAY IMAGEN EN EL MODULO DE	321	IMAGEN DEMASIADO OSCURA	331	RESOLUCIÓN DÉBIL DE LA IMAGEN	341	NUVE EN LA IMAGEN
47		312	NO HAY IMAGEN EN LA REPRODUCCIÓN	322	IMAGEN DEMASIADO CLARA	332	ENFOQUE FALSO	342	RUIDO DE PUNTOS/REDONDOS EN LA IMAGEN
48		313	NO HAY IMAGEN EN EL VISOR	323	CONTRASTE DÉBIL	333	OSCILACIÓN TRANSITORIA EN LA IMAGEN	343	BARRAS DE RUÍDO EN LA IMAGEN
49		314	NO HAY IMAGEN EN EL TELEVISOR	324	CONTRASTE ALTO	334	SEÑALIZACIÓN DE ERRORES	344	SEÑALIZACIÓN DE ERRORES
50		315	NO HAY IMAGEN EN EL MONITOR	325	SATURACIÓN DÉBIL	335	DIMENSIÓN DÉBIL	345	HALOS EN LA IMAGEN
51		316	NO HAY IMAGEN EN EL LCD	326	SOMBRA EN LA IMAGEN	336	CENTRADURA DÉBIL DE LA IMAGEN	346	RUÍDO DE SOBREMODULACIÓN
52		317	NO HAY IMAGEN EN EL MONITOR	327	NO HAY IMAGEN	337	INCORRECTO TAMAÑO V	347	MOIRE
53		318	NO HAY INDICACIÓN DE "MONITOR (U) OTRO"	328	OTRO PROBLEMA DEL NIVEL DE IMAGEN	338	INCORRECTO TAMAÑO V	348	EN MOSAICO
54		319	OTRO PROBLEMA DE NO HAY IMAGEN	329	PROBLEMA DEL NIVEL DE COLOR	339	OTRO PROBLEMA DE LA CALIDAD DE IMAGEN	349	IMAGEN DIFÍCIL
55		31X		32X		33X	OTRO PROBLEMA DE IMAGEN RUIDOSA	35X	OTRO PROBLEMA DE IMAGEN INESTABLE
56		410	NO HAY COLOR	420	PROBLEMA DEL NIVEL DE COLOR	430	PROBLEMA DE LA CALIDAD DE COLOR	440	COLOR RUIDOSO
57		411	NO HAY COLOR EN EL MODO EE	421	COLOR DÉBIL	431	PERDIDA DE UNO O DOS COLORES	441	COLOR RUIDOSO EN BLANCO Y NEGRO
58		412	NO HAY COLOR EN LA REPRODUCCIÓN	422	COLOR EXCESIVO/SATURADO	432	FALLO DEL BALANCE DE BLANCO	442	RAYAS DE COLOR
59		413	NO HAY COLOR EN EL VISOR	423	OTRO PROBLEMA DEL NIVEL DE COLOR	433	PROBLEMA DEL MATIZ	443	BARRAS DE COLOR EN PANTALLA
60		414	NO HAY COLOR EN PARTE DE LA IMAGEN	424		434	ERRORES DE COLOR	444	OTRO PROBLEMA DE COLOR RUIDOSO
61		41X		42X		435	ERRORES DE COLOR PUREZA/BLANCO UNIFORME	445	
62		450	NO HAY SONIDO	520	PROBLEMA DEL NIVEL DE SONIDO	530	SONIDO RUIDOSO	540	
63		511	NO HAY SONIDO EN EL MODO EE	521	NIVEL DÉBIL DEL SONIDO	531	RESPUESTA DE FRECUENCIA DÉBIL	541	ZUMBIOS
64		512	NO HAY REPRODUCCIÓN DE LOS MENSAJES TELÉFONICOS	522	NIVEL EXCESIVO DEL SONIDO	532	DISTORSIÓN DEL SONIDO	542	SILBIDO
65		513	NO HAY REPRODUCCIÓN DE LOS MENSAJES DE SEGURIDAD	523	PROBLEMA DE BALANCE	533	DIÀFRAMA	543	ESTONIA POP/CHASQUIDO
66		514	NO HAY REPRODUCCIÓN DE SONIDO	524	PROBLEMA DE DESVANECIMIENTO	534	MEMBRANA	544	AMBUDIO
67		515	NO HAY SONIDO EN EL MÓVIL/TELEFONO	525	PROBLEMA DE SONIDO DEL ALURICULAR	535	RUIDO DE POTENCIÓMETRO	545	REALIMENTACIÓN DE SONIDO
68		516	NO HAY SONIDO EN EL AURICULAR	526	OTRO PROBLEMA DE LA CALIDAD DE SONIDO	536	RUIDO DE ENCENDIDO	546	RETUMBAR
69		517	NO HAY SONIDO EN EL MICRÓFONO	527	OTRO PROBLEMA DE SONIDO	537	RUIDO DE COMUNICACIÓN DE TELÉFONO	547	RETUMBAR
70		518	NO HAY SONIDO EN EL ALTAVOCES	528	OTRO PROBLEMA DE SONIDO	538	OTRO PROBLEMA DE SONIDO	548	OTRO PROBLEMA DE SONIDO
71		519	NO HAY SONIDO EN EL MICRÓFONO	529	OTRO PROBLEMA DE SONIDO	539	OTRO PROBLEMA DE SONIDO	549	OTRO PROBLEMA DE SONIDO
72		51X		52X		53X	OTRO PROBLEMA DE SONIDO RUIDOSO	55X	OTRO PROBLEMA DE SONIDO INESTABLE
73		610	NO HAY FUNCIONAMIENTO MECÁNICO	620	OPERACIÓN MECÁNICA IRREGULAR	630	PROBLEMA DE VELOCIDAD	640	RUIDO MECÁNICO
74		611	NO HAY ROTO DEL DISCOP/MOTOR	621	ROTACIÓN IRREGULAR	631	DEMASIADO RÁPIDO	641	RUIDO DE ROTACIÓN/TAMBOR
75		612	NO HAY ROTO DEL DISCOP/MOTOR	622	ROTACIÓN IRREGULAR	632	DEMASIADO LENTO	642	RUIDO DE ROTACIÓN
76		613	NO HAY REVERSER	623	REVERSER IRREGULAR	633	DEMASIADO ALISTABLE	643	CHILLIDO
77		614	NO HAY REVSER	624	FF O NEW IRREGULAR	634	CHILLIDO	644	CHILLIDO
78		615	NO HAY CARGA	625	CARGA IRREGULAR DEL SISTEMA	635	RODILLO DE VENTILADORES	645	RODILLO DE VENTILADORES
79		616	NO HAY CARGA/IRREGULAR	626	MOVIMIENTO IRREGULAR DEL BRAZO	636	RODILLO DE DISCO	646	RODILLO DE CARGA DE CINTA
80		617	NO HAY AUTOMÓTICO	627	MOVIMIENTO IRREGULAR DEL BRAZO	637	RODILLO DE ENGRANAJE	647	RODILLO DE ENGRANAJE
81		618	NO HAY MOVIMIENTO DEL BRAZO	628	MOVIMIENTO IRREGULAR DE LA CINTA	638	RODILLO DE COMMUTACIÓN O DE CONTROL	648	RODILLO DE COMMUTACIÓN
82		619	NO HAY MOVIMIENTO DEL BRAZO	629	OTRO PROBLEMA DE LA DIRECCION	639	RECHIWAR	649	RECHIWAR
83		61X		62X		640	RETUMBAR	650	OTRO PROBLEMA DE RUIDO IRREGULAR
84		710	NO HAY PROCESADO DE DATOS	720	PROCESO DE DATOS ERROÑEO	730	PROBLEMA DE VISUALIZACIÓN DE DATOS	740	DISPOSITIVO INDICADOR/TECLAS DE CONTACTO
85		711	NO HAY PANTALLA DE	721	DATOS ERROÑEOS	731	CARACTERES ERROÑEOS	741	NO FUNCIONA MOUSE/TRACKBALL/JOYSTICK
86		712	NO HAY REINICIACIÓN/RESET DEL SISTEMA	722	RESET DE SISTEMA DURANTE FUNCIONAMIENTO	732	FALTA CARACTERES EN EL DISPLAY	742	TECLA BLOQUEADA
87		713	NO HAY ARRANQUE DEL SISTEMA	723	INTERRUPTION DEL SISTEMA/CALIBRACIÓN	733	DISPOSITIVO INDICADOR BLOQUEADO	743	DISPOSITIVO INDICADOR BLOQUEADO
88		714	NO HAY ARRANQUE DEL PERIFÉRICO NO FUNCIONA	724	PROGRAMACIÓN DEL SISTEMA	734	TIPOS DE ERRORES	744	TIPOS DE ERRORES
89		715	TECLADO NO FUNCIONA	725	FUNCTIONAMIENTO ERROÑEO DEL TECLADO	735	CARACTERES/GRÁFICAS	745	CARACTERES/GRÁFICAS
90		716	NO HAY ARRANQUE DEL DISCO	726	FUNCTIONAMIENTO ERROÑEO DESDE OTRA	736	TIPOS DE ERRORES	746	TIPOS DE ERRORES
91		717	NO HAY MOVIMIENTO DEL BRAZO	727	INTERFACCIA DE DISCO	737	DISPOSITIVO INDICADOR NO SIGUE CORRECTAMENTE	747	DISPOSITIVO INDICADOR NO SIGUE CORRECTAMENTE
92		718	NO HAY ARRANQUE DEL BRAZO	728	INTERFACCIA DE DISCO	738	TIPOS DE ERRORES	748	TIPOS DE ERRORES
93		719	NO HAY ARRANQUE DEL DISCO	729	INTERFACCIA DE DISCO	739	DISPOSITIVO INDICADOR VIBRA	749	DISPOSITIVO INDICADOR VIBRA
94		720	OTRO PROBLEMA DE NO HAY PROCESADO DE DATOS	730	OTRO PROBLEMA DE VISUALIZACIÓN DE DATOS	740	DISPOSITIVO INDICADOR	750	DISPOSITIVO INDICADOR
95		71X		72X		751	DISPOSITIVO INDICADOR	760	DISPOSITIVO INDICADOR
96		810	NO HAY OPERACIÓN DE IMPRESIÓN/COPIA/ESCANEO	820	FUNCIÓN ERROÑA DE IMPRESIÓN/COPIA/ESCANEO	830	MALA CALIDAD DE IMPRESIÓN	840	IMPRESIÓN RUIDOSA
97		811	NO HAY IMPRESIÓN	821	IMPRESIÓN INVERTIDA (NEGATIVO/POSITIVO)	831	POSICIONAMIENTO ERROÑO DE LA IMPRESIÓN	841	LÍNEAS DE RUÍDO
98		812	NO HAY COMUNICACIÓN CON LA IMPRESORA	822	ALTO CONTRASTE DE LA IMPRESIÓN	832	IMPRESIÓN SUICIA	842	IMPRESIÓN SUICIA
99		813	NO HAY ALIMENTACIÓN DE PAPEL	823	COMBINACIÓN DE MODO DE IMPRESIÓN	833	OLOR DESAGradable (OZONO)	843	OLOR DESAGradable (OZONO)
100		814	NO HAY ALIMENTACIÓN CON BATERIAS	824	TIPO DE DESAGRADABILIDAD DE LA IMPRESIÓN	834	TIPOS DE ERRORES	844	TIPOS DE ERRORES
101		815	NO HAY ALIMENTACIÓN CON BATERIAS	825	IMPRESIÓN BORROSA	835	IMPRESIÓN VAGA	845	IMPRESIÓN VAGA
102		816	NO HAY ALIMENTACIÓN DE DOCUMENTO	826	IMPRESIÓN EN LA IMPRESIÓN	836	TIPOS DE ERRORES	846	TIPOS DE ERRORES
103		817	NO HAY ALIMENTACIÓN DE DOCUMENTO	827	IMPRESIÓN EN LA IMPRESIÓN	837	IMPRESIÓN COLOR A RAYAS	847	IMPRESIÓN COLOR A RAYAS
104		818	OTRO PROBLEMA DE NO HAY OPERACIÓN DE IMPRESIÓN/COPIA/ESCANEO	828	TIPOS DE ERRORES	838	IMPRESIÓN COLOR EN LINEAS	848	IMPRESIÓN COLOR EN LINEAS
105		819	OTRO PROBLEMA DE NO HAY OPERACIÓN DE IMPRESIÓN/COPIA/ESCANEO	829	OTRO PROBLEMA DE ERRORES	839	IMPRESIÓN COLOR EN LINEAS	849	IMPRESIÓN COLOR EN LINEAS
106		81X		82X		850	INCOMPLETA IMPRESIÓN MAGEN/COPIA	860	IMPRESIÓN RUIDOSA
107		81X		82X		861	FALTA DE AJUSTE	870	
108		81X		82X		862	OTRO PROBLEMA DE ERRORES	871	
109		81X		82X		863	OTRO PROBLEMA DE ERRORES	872	
110		81X		82X		864	OTRO PROBLEMA DE ERRORES	873	
111		81X		82X		865	OTRO PROBLEMA DE ERRORES	874	
112		81X		82X		866	OTRO PROBLEMA DE ERRORES	875	
113		81X		82X		867	OTRO PROBLEMA DE ERRORES	876	
114		81X		82X		868	OTRO PROBLEMA DE ERRORES	877	
115		81X		82X		869	OTRO PROBLEMA DE ERRORES	878	
116		81X		82X		870	OTRO PROBLEMA DE ERRORES	879	
117		81X		82X		871	OTRO PROBLEMA DE ERRORES	880	
118		81X		82X					

## **EACEM - CÓDIGOS DE SECCIÓN**

COMÚN	
ANT	SECCIÓN DE LA ANTENA
APR	PROCESADO DE SEÑALES (ANALÓGICO)
BCH	CARGA DE BATERÍA
CLK	SECCIÓN DE RELOJ
CPA	PROCESADO DE COLOR ANALÓGICO
CTR	PANEL DE CONTROL
DPR	PROCESADO DE SEÑALES (DIGITAL)
ERA	CIRCUITO DE BORRADO
FLX	PLACA FLEXIBLE
HFS	SECCIÓN DE ALTA FRECUENCIA
IDS	SECCIÓN DEL DISPLAY DE INFORMACIÓN
IFC	CIRCUITO FI
ILN	SECCIÓN i.LINK (IEEE1394)
INP	SECCIÓN DE ENTRADA DE SEÑALES
IRD	SECCIÓN INFRA-ROJOS (IRDA)
MEM	SECCIÓN DE MEMORIA
OUT	SECCIÓN DE SALIDA DE SEÑALES
PRG	SECCIÓN DE PROGRAMACIÓN
PRT	CIRCUITO DE PROTECCIÓN
PSU	ALIMENTACIÓN
PWA	SECCIÓN DEL AMP DE POTENCIA
REM	SECCIÓN DEL CONTROL REMOTO
RFU	AMPLIFICADOR/UNIDAD RF
SFT	SOFTWARE (CINTA/DISCO/ETC.)
SNS	UNIDAD DE DETECCIÓN
SVO	SECCIÓN DE SERVO
SYS	SECCIÓN DEL SISTEMA DE CONTROL
TUN	SECCIÓN DE SINTONIZACIÓN
TXT	PROCESADO DE TEXTOS
SONIDO	
APA	PROCESADO DE AUDIO ANALÓGICO
APD	PROCESADO DE AUDIO DIGITAL
CDC	SECCIÓN CAMBIADOR CD
CDS	SECCIÓN CD
MDC	SECCIÓN CAMBIADOR MD
MDS	SECCIÓN MINIDISC
MIC	SECCIÓN DE MICRÓFONO
PUD	DISPOSITIVO CAPTADOR
SHD	CABEZAS FIJAS
SPK	ALTAVOZ
IMAGEN	
CAM	CIRCUITO CÁMARA
CPD	PROCESADO DE COLOR DIGITAL
CRT	TUBO DE IMAGEN
DFL	CIRCUITO DE DEFLEXIÓN
DVD	SECCIÓN DVD
FPK	CONJUNTO DE ENFOQUE
IMG	UNIDAD DE VISUALIZACIÓN DE IMÁGENES

NÚMERO DE REFERENCIA			SECCIÓN			PLACA			CÓDIGO DE DEFECTO		CÓDIGO DE REPARACIÓN		CANTIDAD		
2	3	.		T	D	M	Y	A	2	2	.	C	1	Z	1
1															

NOTA: EL ÚLTIMO DÍGITO INDICA LA ÚNICA Y PRINCIPAL COMBINACIÓN SÍNTOMA/COMPONENTE PARA LA REPARACIÓN.

IMAGEN	
LCD	SECCIÓN LCD
LMP	SECCIÓN FLASH/LÁMPARA
VPA	PROCESADO DE VIDEO ANALÓGICO
VPD	PROCESADO DE VIDEO DIGITAL
VWF	VISOR
PC	
FDD	EXCITADOR DEL FLOPPY DISC
FMW	PROGRAMACIÓN FIJA
HDD	EXCITADOR DEL DISCO DURO
ISA	SECCIÓN ISA
JST	JOYSTICK
KBD	TECLADO
MDM	SECCIÓN MODEM
NIF	RED DE INTERCONEXIÓN
PAR	PUERTA PARALELO
PCC	TARJETA PC
PCI	SECCIÓN PCI
SCS	PUERTA SCSI
SER	PUERTA SERIE
USB	PUERTA USB
MECÁNICO	
ARM	MECANISMO DEL BRAZO
BZL	BEZEL (MUEBLE FRONTAL)
CBT	MUEBLE
CHA	CHASIS
DDM	SECCIÓN DE ACCIONAMIENTO DEL DISCO
EXC	CONECTOR EXTERNO
HCM	MECANISMO DE SOPORTE DE LA CABEZA
HOL	SOPORTE DE CASSETTE
INC	CONECTOR INTERNO
LDG	MECANISMO DE CARGA
LNM	MECANISMO DE LENTE
PFM	MECANISMO DE ALIMENTACIÓN DEL PAPEL
PIN	RODILLO/PALANCA DE APRIETE
PRI	BLOQUE DE IMPRESOR
RFM	MECANISMO DE ALIMENTACIÓN DE LA CINTA
RHD	CABEZAS ROTATIVAS
SLD	MECANISMO DE SEGUIMIENTO
SRS	SECCIÓN DEL CARRETE DE SUMINISTRO
STA	BLOQUE ESTÁTICO
TDM	MECANISMO DE ACCIONAMIENTO DE LA CINTA
THR	MECANISMO DE ENHEBRADO
TNR	REGULADOR DE LA TENSIÓN DE LA CINTA
TPT	CAMINO DE LA CINTA
TRS	SECCIÓN DEL CARRETE DE RECOGIDA
WIR	CABLE
XXX	PIEZAS ESTÉTICAS

CÓDIGOS DE LOS DEFECTOS	
	MECÁNICO
A	GASTADO (O DEFECTO MECÁNICO EN GENERAL)
A1	ERROR DE FUNCIONAMIENTO
B	ENSUCIADO/MANCHADO
C	DESAJUSADO MECÁNICAMENTE
D	CORTADO/DEFECTUOSO
E	DESFORMADO
F	ENGANCHADO/BLOQUEADO
G	RAYADO/ABOLLADO/BORDES CORTANTES
H	HENDIDURA/PELADO/CORROIDO/FUNDIDO
I	SEPARADO/SUELTO/RAYADO
J	INESTABILIDAD
K	PÉRDIDA (MÉCANICA)
L	SECO (SIN LUBRIFICANTE)
M	CUERPO EXTRAÑO
ELÉCTRICO	
N	COMPONENTE ELÉCTRICO/MÓDULO DEFECTUOSO
O	QUEMADO/FORMACIÓN DE ARCO/PIXELS QUE FALTAN
P	MAL AJUSTADO ELÉCTRICAMENTE/MAL AJUSTADO
Q	CORTOCIRCUITO
R	CIRCUITO ABIERTO
S	FUGA (ELÉCTRICA)
T	MAL CONTACTO/SOLDADURA
T1	MALA CONEXIÓN A TIERRA
U	CIRCUITO ABIERTO
V	PLACA HENDIDA
W	SOLDADURA SECA O QUE FALTA
X	SOLDADURA EN PUENTE
Y	MÓDULO/COMPONENTE EQUIVOCADO
Z	MÓDULO/COMPONENTE PERDIDO
1	PROBLEMA DE SOFTWARE
11	PÉRDIDA DE DATO DESDE LA MEMORIA
12	FALLO EN AJUSTE/INSTALACIÓN DE PROGRAMA
13	SOFTWARE DEFECTUOSO O INCOMPLETO
14	PROBLEMA DE AJUSTE DEL SOFTWARE
15	NO IDENTIFICA/VERIFICA EL PRODUCTO O EL USUARIO
2	AGOTADO/EMISIÓN DEBIL
3	NO SE ENCUENTRA PROBLEMA (APARATO DENTRO DE ESPEC.)
4	NO SE ENCUENTRA PROBLEMA - EQUIVOCACIÓN DEL USUARIO
5	NO SE ENCUENTRA PROBLEMA - CONDICIONES LOCALES
51	FALLO EN LA TENSIÓN PRINCIPAL
6	IMPOSIBLE DIAGNOSTICAR FALLO
7	INCORRECTAMENTE CABLEADO/MONTADO
81	CONEXIÓN INCORRECTA DEL EQUIPO
9	MAL USO POR EL USUARIO
93	MODIFICACIÓN NO AUTORIZADA

CÓDIGOS DE REPARACIÓN	
A	SUSTITUCIÓN
B	AJUSTE MECÁNICO
C	AJUSTE ELÉCTRICO
D	RESOLDADURA
D1	REPARACIÓN/RECOLOCAR EN SU SITIO (CONECTOR/TUBO/...)
E	LIMPIEZA
F	ENGRASE
G	COMPONENTES ELÉCTRICOS REPARADOS
H	COMPONENTES MECÁNICOS REPARADOS
I	MODIFICACIÓN SOLICITADA POR EL FABRICANTE
J	DESMONTADO
K	ANÁDIDO
L	COMPROBACIÓN FUNCIONAL
M	MEDICIÓN DE ESPECIFICACIÓN
N	MANTENIMIENTO
O	REPULIR
P	SUSTITUCIÓN PREVENTIVA DE COMPONENTES
Q	ACCIÓN PREVENTIVA SIN SUSTITUCIÓN DE COMPONENTES
U	EXPLICACIÓN ANADIDA
V	PRESUPUESTO RECHAZADO
W	PRESUPUESTO CON COMPONENTES
X	PRESUPUESTO SIN COMPONENTES
Y	VUELTO AL CLIENTE SIN REPARACIÓN
Z	CAMBIO DEL APARATO
Z1	CAMBIO DE PRODUCTO (REPARACIÓN MUY CARA)
Z2	CAMBIO DE PRODUCTO (MUCHAS VISITAS/REPARACIONES)
Z3	CAMBIO DE PRODUCTO (REPUESTO NO OBTENIBLE)
Z4	CAMBIO DE PRODUCTO (IMPOSIBLE DE REPARAR)
Z5	CAMBIO DE PRODUCTO (SOLICITADO AL DETALLISTA)
Z6	CAMBIO DE PRODUCTO (SOLICITADO POR EL FABRICANTE)
1	CORRECCIÓN DEL SOFTWARE/REAJUSTE
2	ACTUALIZACIÓN DEL SOFTWARE
3	PRODUCTO ACTUALIZADO (SOBRE PEDIDO)

# TECHNICAL INFORMATION

---

**Chassis concerned : ICC17 (25"MP & 28"MP)**

**Symptom/ Problem observed :**

Spare Parts List, component part number amendment.

**Solution implemented :**

To optimize the CRT heater supply voltage for the above mentioned tubes, both LL05(DST) and LB02 (coil) have been changed.

**LL05** : Old Part No. 10546610 ---> **New Part No. 10600190**

**LB02** : Old Part No. 10477930 ---> **New Part No. 25349470**

**Comment :**

Both components must be replaced at the same time.

# TECHNICAL INFORMATION

**Finished products / Chassis concerned :**  
**All TV sets equiped with ICC17 chassis (CRT Board)**

**Subject : Protection of transistor TB02 against arcing**

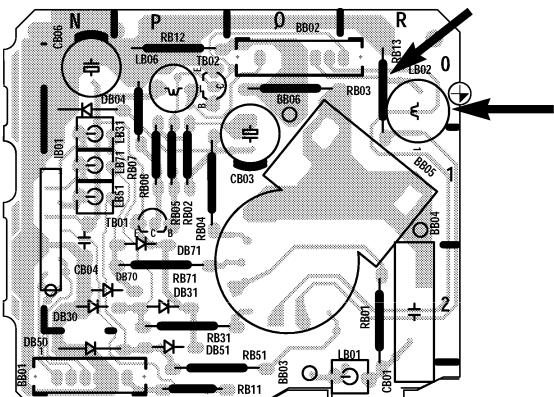
**Symptom/ Problem observed :**

Transistor type number BF422 used in position TB02 found defective.

**Cause :**  
Arcing.

**Solution implemented :**

- Remove the resistor at location RB13.
- On the copper side of the CRT PCB, add an insulated wire link between pin 1 of inductor LB02 and pin 4 of the CRT socket (ground).



**IRIS CODE:** the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 3 1 5			R B 1 3	V P A	Y	T

You do not need to write anything in the white boxes.

## TECHNICAL INFORMATION

## **Chassis concerned : ICC17**

**Symptom/ Problem observed :**

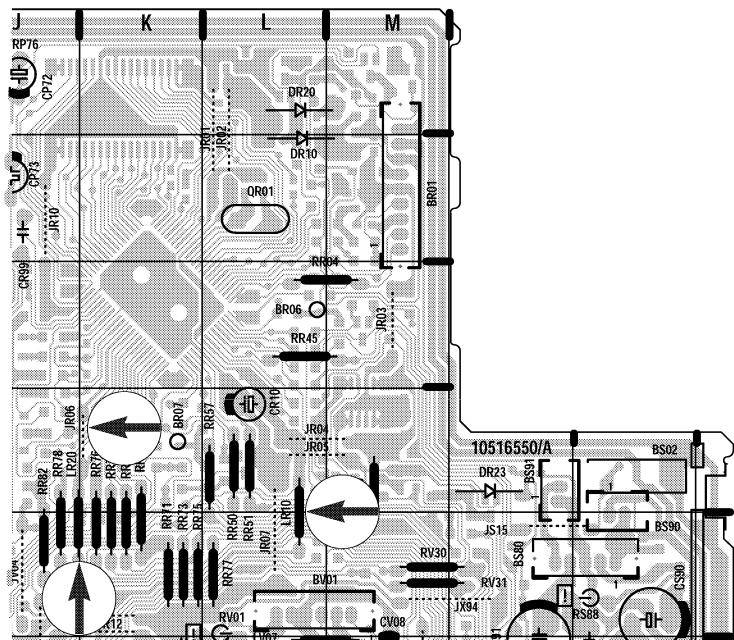
**Symptom / Problem Observed :**

## Cause :

High frequency cross modulation.

## Solution implemented

- Remove the jumper link at location JR06.
- Remove the inductor at location LR20.
- Replace LR10 10 $\mu$ H inductor with a jumper link.



# TECHNICAL INFORMATION

## Chassis concerned : ICC17

### Problem observed :

Different symptoms can be observed

- TV stuck in the Standby Mode with the safety mode active (code 27).
- Unstable OSD graphics.
- Sporadic or intermittent vertical scan.

### Cause :

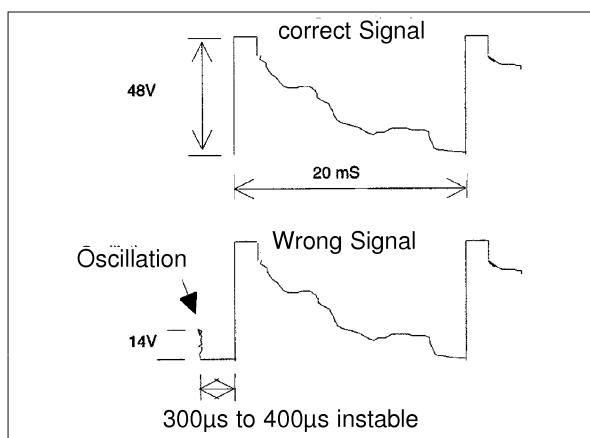
Parasitic oscillation at pin 7 of IF01 (see attached)

### Solution implemented :

The problem is still under investigation to identify the basic cause of the problem, but to initially overcome the problem we recommend changing the following components:

- Change RF08 from  $4.7\Omega$  or  $27\Omega$  to  $68\Omega$  25% 0.700w Part No. 15009050.
- Change CF08 from  $100nF$  to  $220nF$  20% 63V Part No. 43302770.

If problem is still not resolved after changing the above mentioned resistors the replace IF01.



IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 1 1 9	1 5 0 0 9 0 5 0	0 1	R F 0 8	D F L	Y	A
	4 3 3 0 2 7 7 0	0 1	C F 0 8	D F L	Y	A

You do not need to write anything in the white boxes.

# TECHNICAL INFORMATION

**Chassis concerned : ICC17 (with PCB index 02)**

**Problem observed :**

The TV will not come out the Standby Mode.

**Cause :**

When starting, the base drive current to TP50 is too low.

**Solution implemented :**

Change the diode in position DP39 (LL4148) to a resistor strap Part No. 41047950.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1   1   1   9	4   1   0   4   7   9   5   0	0   1	D   P   3   9	P   S   U	Y	A

You do not need to write anything in the white boxes.

# TECHNICAL INFORMATION

## Chassis concerned : ICC17

### Problem observed :

At switch "ON", the TV's standby power supply does not work.

### Cause :

The reverse voltage of the diodes used in positions DP16/17/18/19 (1N4001) is too low especially when the mains voltage is at highest.

### Solution implemented :

Change the diodes used in positions DP16/17/18/19 with higher reverse breakdown voltage (400V) type number 1N4004, Part No. 44009009.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 1 1 9	4 4 0 0 9 0 0 9	0 1	D P 1 6	PSU	Y	A
	4 4 0 0 9 0 0 9	0 1	D P 1 7	PSU	Y	A
	4 4 0 0 9 0 0 9	0 1	D P 1 8	PSU	Y	A
	4 4 0 0 9 0 0 9	0 1	D P 1 9	PSU	Y	A

You do not need to write anything in the white boxes.

# TECHNICAL INFORMATION

**Chassis concerned : ICC17 (with PCB index 02)**

**Problem observed :**

East/West correction circuit failure.

**Cause :**

The transistor used in position TL41 (BD241C) is damaged due to CRT flashover.

**Solution implemented :**

After replacement TL41, add a RGP10G protection diode in position DL41 in parallel with TL41 (cathode to the collector of TL41 and the anode to ground), Part No. 10459090.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
3   3   3   5   1   0   4   5   9   0   9   0   0   1   <input type="text"/>   D   L   4   1   D   F   L   <input type="text"/>   Z   <input type="text"/>   K						

You do not need to write anything in the white boxes.

# TECHNICAL INFORMATION

**Chassis concerned : ICC17**

**Subject : Improvement of the reception with internal antenna**

**Problem observed :**

Moiré patterning, mainly visible on VHF channels.

**Cause:**

Inference being caused by the switch mode power supplies when using a set top aerial.

**Solution implemented :**

Change the value of capacitor CP49 from 1.5nF into 3.3nF 20% 1.6KV code 10607950.

Please change the following components in order to change the frequency of operation of the power as follows :

- Capacitor CP16/CP17 from 220nF to a 470nF 20% 275V Part No. 10596570.
- Capacitor CP41 from 10nF 63V to a 10nF 10% 100V Part No. 70427750.
- Resistor RP53 from 5.6kΩ to a 5.1kΩ 5% 0.100W Part No. 30611700.
- Resistor RP56 from 10kΩ to a 2.2kΩ 5% 0.100W Part No. 40077900.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 2 2 4	1 0 6 0 7 9 5 0	0 1	C P 4 9	P S U	Y	A
	1 0 5 9 6 5 7 0	0 1	C P 1 6	P S U	Y	A
	1 0 5 9 6 5 7 0	0 1	C P 1 7	P S U	Y	A
	7 0 4 2 7 7 5 0	0 1	C P 4 1	P S U	Y	A
	3 0 6 1 1 7 0 0	0 1	R P 5 3	P S U	Y	A
	4 0 0 7 7 9 0 0	0 1	R P 5 6	P S U	Y	A

You do not need to write anything in the white boxes.

# TECHNICAL INFORMATION

## Chassis concerned : ICC17

### Problem observed :

Visible flash over after quickly switch Off and On again.

### Solution implemented :

Change the value of capacitor CI57 from 2.2µF to a 1µF 20% 100V, Part No. 256728.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 3 2 1	2 5 6 7 2 8	0 1	C I 5 7	A P R	Y	A

You do not need to write anything in the white boxes.

## GENERAL INFORMATION

## METHODOLOGY

### 1 - ON POWER-UP :

- Observe the behaviour of the two-coloured LED: note the various stages and compare them to the normal cycle.

By doing this, the time at which the problem arose and the part of the circuit which needs to be investigated can be identified.

### 2 - TROUBLE SHOOTING PROCEDURE: LED BEHAVIOUR

In certain cases the LED will flash when transmitting a message:

LED flashing : message being transmitted.

Count the flashes : code is two bursts separated by a pause of 0.7 s and repeated several times.

See the error code table.

LIST OF LED MESSAGE  
ERROR CODES

This data is more precise than colour changes but still incomplete, since various causes may generate the same code.

### 3 - FAULT FINDING :

Carryout of stages 1 and 2: an oscilloscope test may clarify the code transmitted in stage two.

#### a - The television set operates fully or partially

- Use LED message observation fault finding methods 1 and 2. See also the faults listed relating to fault finding by symptom.

#### b - The television goes into permanent or cyclical security mode

- Observe LED's behaviour (flashing red, stable orange followed by flashing, etc.).  
Select the relevant box in the column (LED behaviour fault finding).

## **POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN**

(5) : standby

**Note :**  
During measurements in the power supply unit  
- Use the primary power unit ground (PCND)

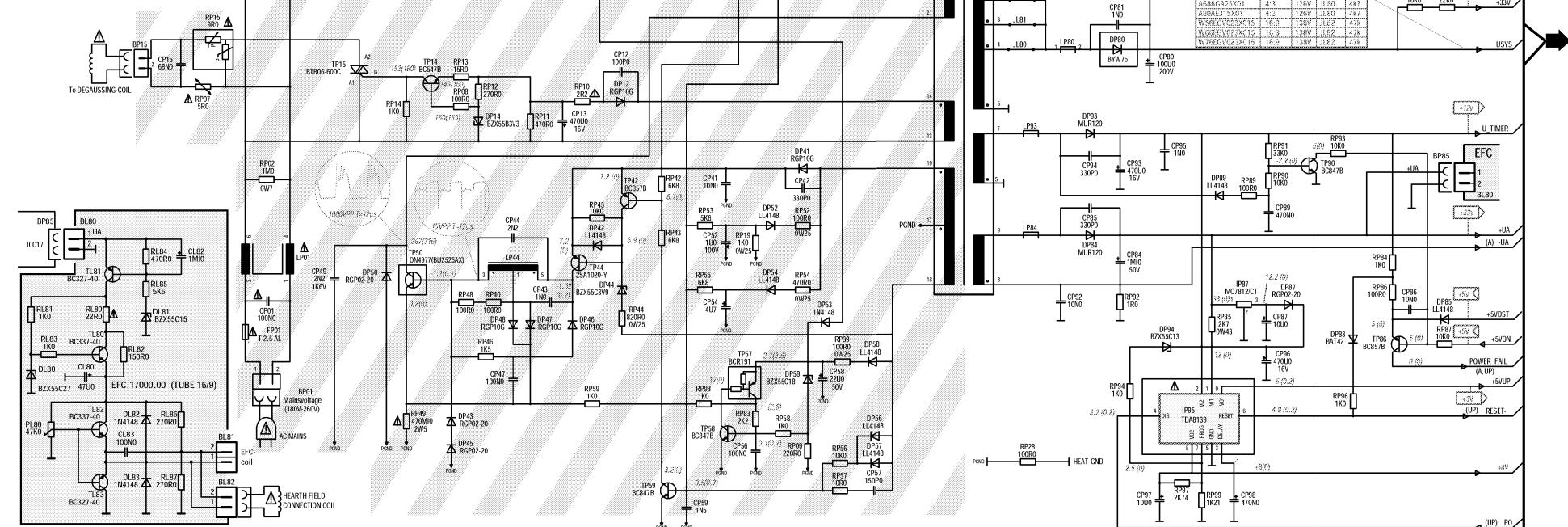
( PGND ).  
**Attention :**  
Mesure dans le bloc alimentation  
- Utiliser la masse du bloc alimentation  
( PGND ).  
**Achtung :**

Bei Messungen im Primärnetzteil  
- Primärnetzteilmasse verwenden  
( PGND ).  
**Attention:**

**Attenzione :**  
misure nell'alimentatore primario  
- usare massa alimentazione primario  
( PGND ).

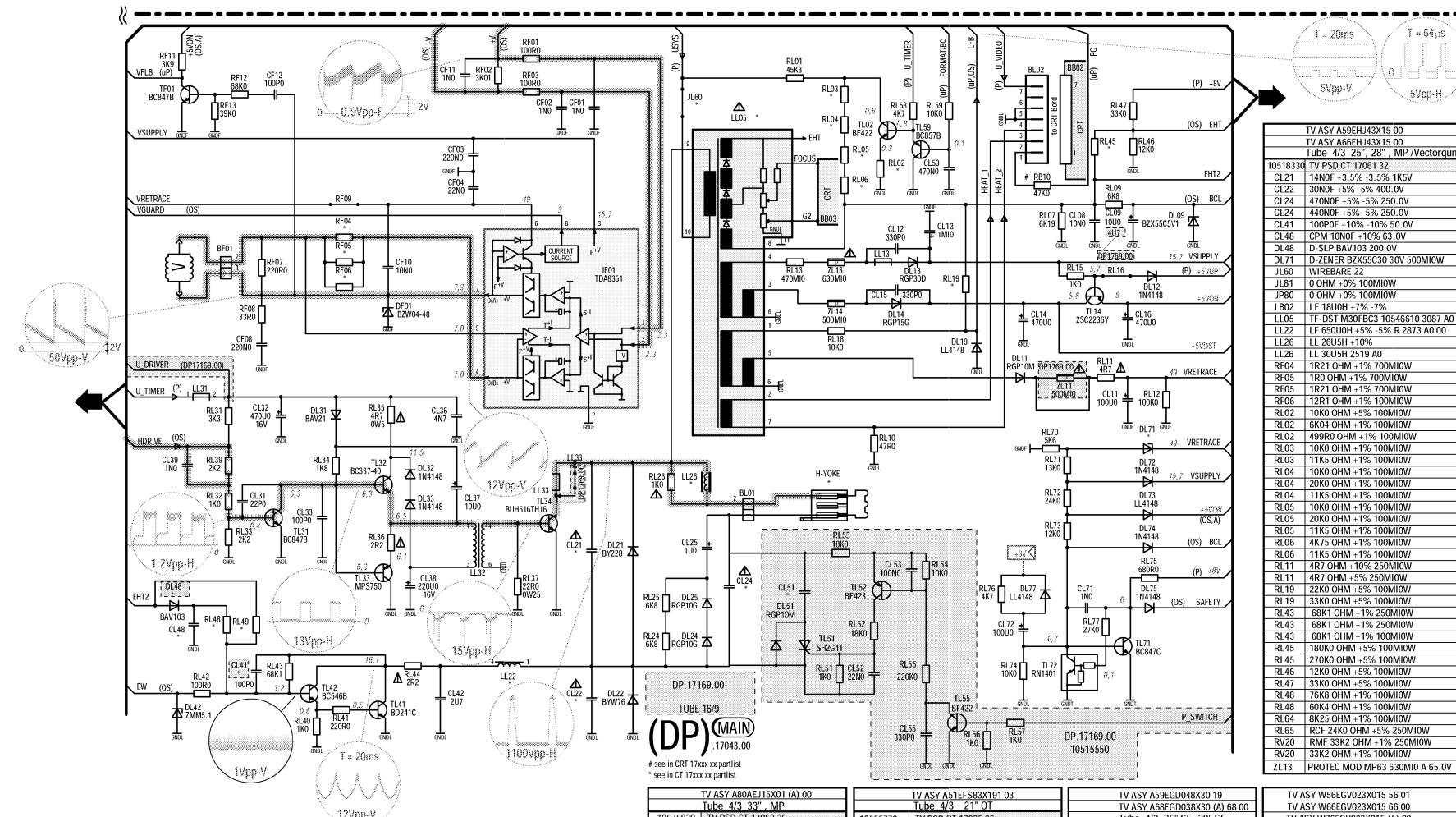
Cuidado :  
Medida en el bloque de alimentacion  
- Utilizar la masa del bloque de  
alimentacion ( PGND ).

Part of board connected to mains supply.  
Partie du châssis reliée au secteur.  
Primärseite des Netzteils.  
Parte dello chassis collegata alla rete.  
Parte del chassis conectar a la red.



Use isolating mains transformer - Utiliser un transformateur isolateur du secteur -Einen Trenntrafo verwenden  
Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarsi dalla rete

**SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE**



**⚠** Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole  $\Delta$ ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.

Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol  gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno  $\Delta$ ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el simbolo  ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.

En ese caso, el fabricante cesa de ser responsable.

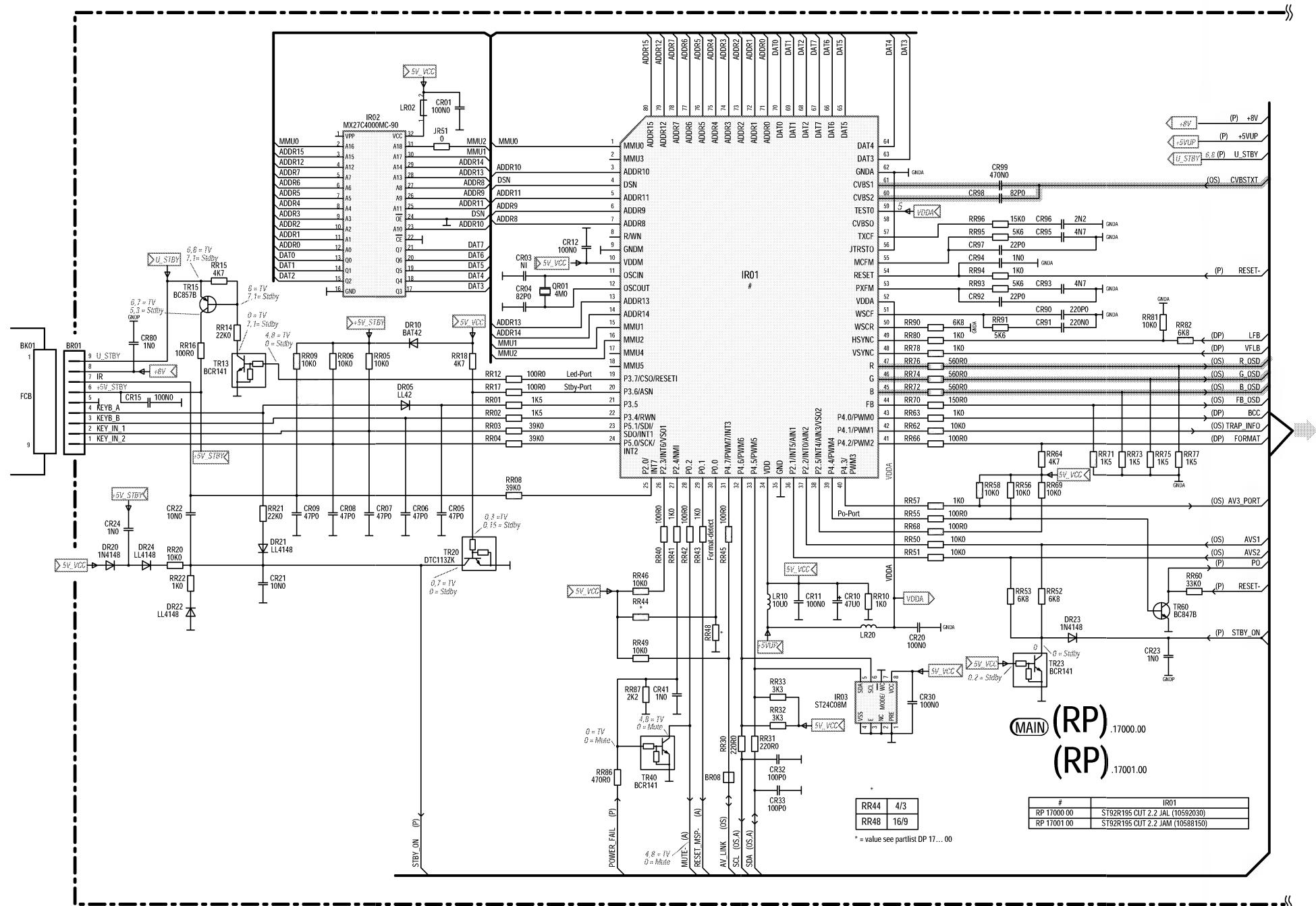
TIV ASY A08AE J1X501 (A) 00 Tube 4/3, "33", MP	
10575830	IVP FSD CL 17082.26
C1.21	16N2F - 3.5% - 3.5% 1K6V
C1.22	30N0F - 5% - 5% 400.0V
C1.24	56N0R +5% - 5% 250.0V
C1.41	100P0U +10% - 10% 50.0V
C1.48	10N0F +10% - 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-75ENER BXZ55C30 30V 500MIOM
JL60	WIREBARE
JL80	0 OHM -0.0% 100M10W
LB02	LJ 32UOH +4% -4%
I1.05	TF-STD TDS29 TBD 11
L1.22	LJ 650UOH +5% - 5% R 2873 A0
L1.26	LJ 28U5H +10%
RF05	1R21 OHM +1% 700MIOW
RF06	10R0 OHM +1% 100MIOW
RL02	6K04 OHM +1% 100MIOW
RL03	4K75 OHM +1% 100MIOW
RL04	4K75 OHM +1% 100MIOW
RL05	4K75 OHM +1% 100MIOW
RL06	6K91 OHM +1% 100MIOW
RL19	13K0 OHM +5% 100MIOW
RL45	150K0 OHM -5% 100MIOW
RL48	76K8 OHM +1% 100MIOW
RL49	56K0OHM -5% 250MIOW
RL65	RCF 4K7 OHM +5% 250MIOW
RU20	RMS 2.2K OHM +3% -36.0MIOW

TV ASY A51EFS83X191.03	
Tube / 21", 21", 21"	
10555770	TV PSD CT 17035 26
CL21	8N3P -3.5% -3.5% 1K6V
CL22	3NN3P -5% 5% 1KOV
CL24	440NF -5% 5% 250.0V
CL41	1N0F -10% 10% 50.0V
DL71	D-7ENR BZK55C-24 24V 500MIOW
JL60	WIREBARE 22
JL80	0 OHM -0% 100MIOW
LB02	FL 18U0H -7% 7%
LL05	TF-DST M30FBC3 10555640 3087A
LL22	FL 650U0H -1% 273K A0
LL26	LL 850U0H 2515 A0
RF05	1R5 OHM -1% 200MIOW
RF06	10R0 OHM -1% 100MIOW
RL02	6K04 OHM -1% 100MIOW
RL03	10K0 OHM -1% 100MIOW
RL04	10K0 OHM -1% 100MIOW
RL05	10K0 OHM -1% 100MIOW
RL06	32K3 OHM -1% 100MIOW
RL45	110K0 OHM +3% 100MIOW
RL49	60K4 OHM -1% 100MIOW
RL65	4K0 OHM +5% 250MIOW

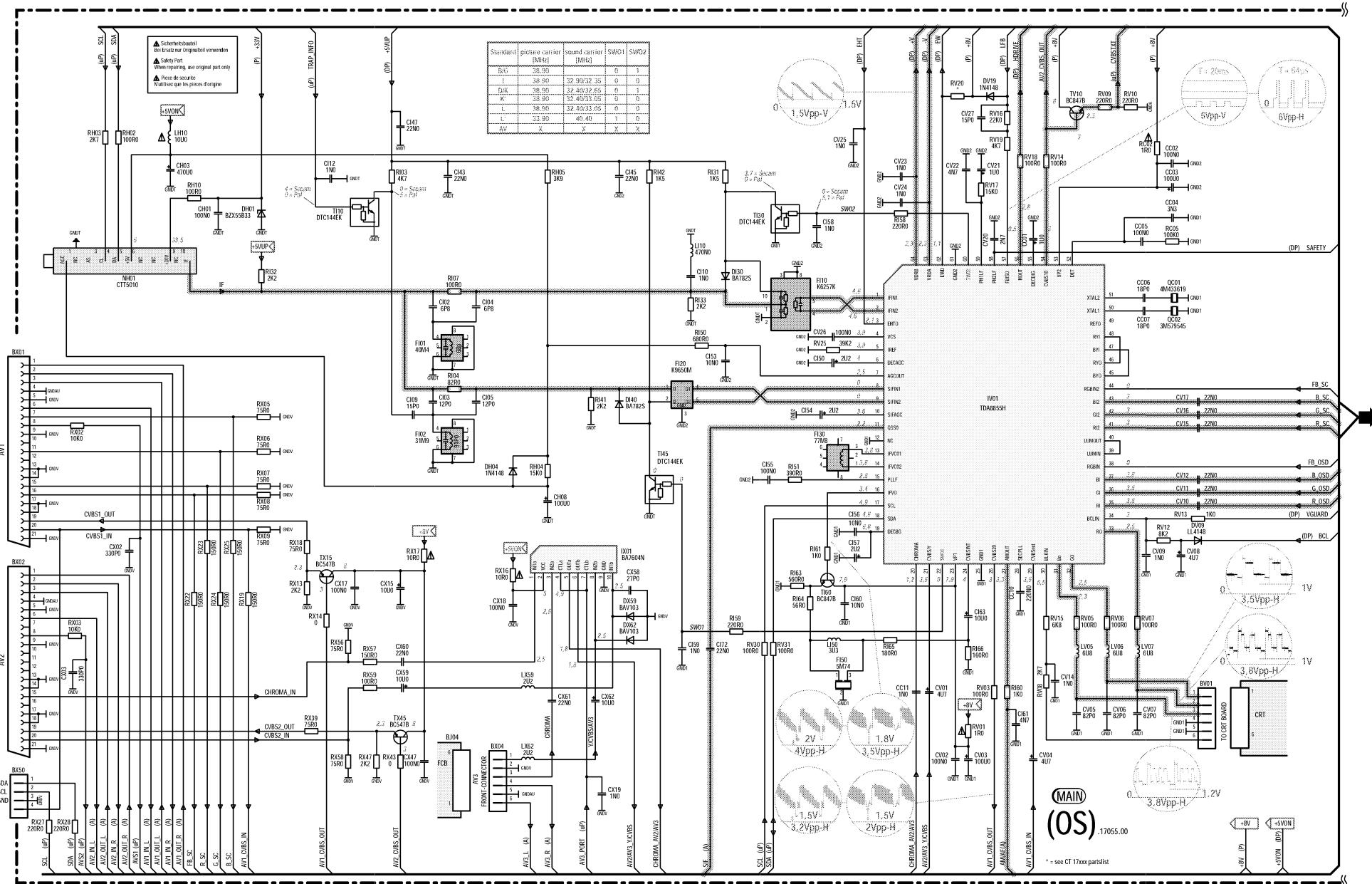
IV	ASY	A59EGD04BX30_19
IV	ASY	A8ECGDD03BX30_19
Tube	4/3	100% 29° SF
10515520	IV	PSD CT 17/01 26
CL21	16N2F-3.5%	-3.5% -1K6V
CL22	30N0F	-5% -5% 400.0V
CL24	510N0E	-5% -5% 250.0V
CL41	100P0F	-10% -10% 50.0V
CL48	10N0F	-10% 63.0V
DL48	D-SLP	BAV103 200.0V
DL71	D-ZENER	BZ255C30 30V 500M10W
JL60	WIREBARE	22
JL80	0 OHM	-0% 100M10W
L802	LF 32U0H	-4% -4%
LL05	TF DST	D529 1BD 13
LL22	LF 650U0H	-5% -5%
LL26	2L 26U9H	-10%
RF05	RMF	1R0 100M -15% 700M10W
RU02	6KH 0.8MM	-5% 100M10W
RU03	4K75 OHM	-1% 100M10W
RU04	4K75 OHM	-1% 100M10W
RU05	4K75 OHM	-1% 100M10W
RU06	4K75 OHM	-1% 100M10W
RU19	15K0 OHM	-5% 100M10W
RU45	180K0 OHM	-5% 100M10W
RU48	100K0 OHM	-5% 100M10W
RU49	300K0 OHM	-5% 100M10W
RU65	4K7 OHM	-5% 250M10W
RV09	323U0H	-15% 360M10W

	TV ASY W56E6GV023X015	56.01			
	TV ASY W66E6GV023X015	66.00			
	TV ASY W76E6GV023X015	(A)00			
Tube 16	19.4"	24"	28.3"	32"	SF / vectorqrun
0551530	TV-PST CD 1073.838				
CL21	15N5F - 5% - 3.5% - 1K6V				
CL22	27NOF - 5% - 5% 400 DV				
CL24	44N00F - 5% - 5% 250.0V				
CL41	100N0F - 10% - 10% 50.0V				
CL48	100N0F - 5% 63.0V				
CL51	290N0F - 5% - 5% 250.0V				
DL48	D-SLV BA103 200.0V				
DL71	D-7ENR BX55C24 24V 500MIOW				
JL60	WIREBARE 22				
JL82	0.0H -0.5% -100MIOW				
LB02	FL 32U0H -4% -4%				
LL05	DT-D TS2 93 15314460 10				
LL22	FL 65U0H -5% -5%				
LL26	SL 30U3H 2519 A0				
RF05	1R21 OHM -1% 700MIOW				
RL02	4K9H OHM -1% 100MIOW				
RL03	6K49 OHM -1% 100MIOW				
RL04	6K49 OHM -1% 100MIOW				
RL05	6K49 OHM -1% 100MIOW				
RL06	2K37 OHM -1% 100MIOW				
RL19	13K OHM -5% 100MIOW				
RL45	3900 OHM -5% 100MIOW				
RL48	220K OHM -5% 100MIOW				
RL49	180K OHM -5% 100MIOW				
RL65	47K OHM -5% 250MIOW				
RV20	1000 OHM -1% 250MIOW				

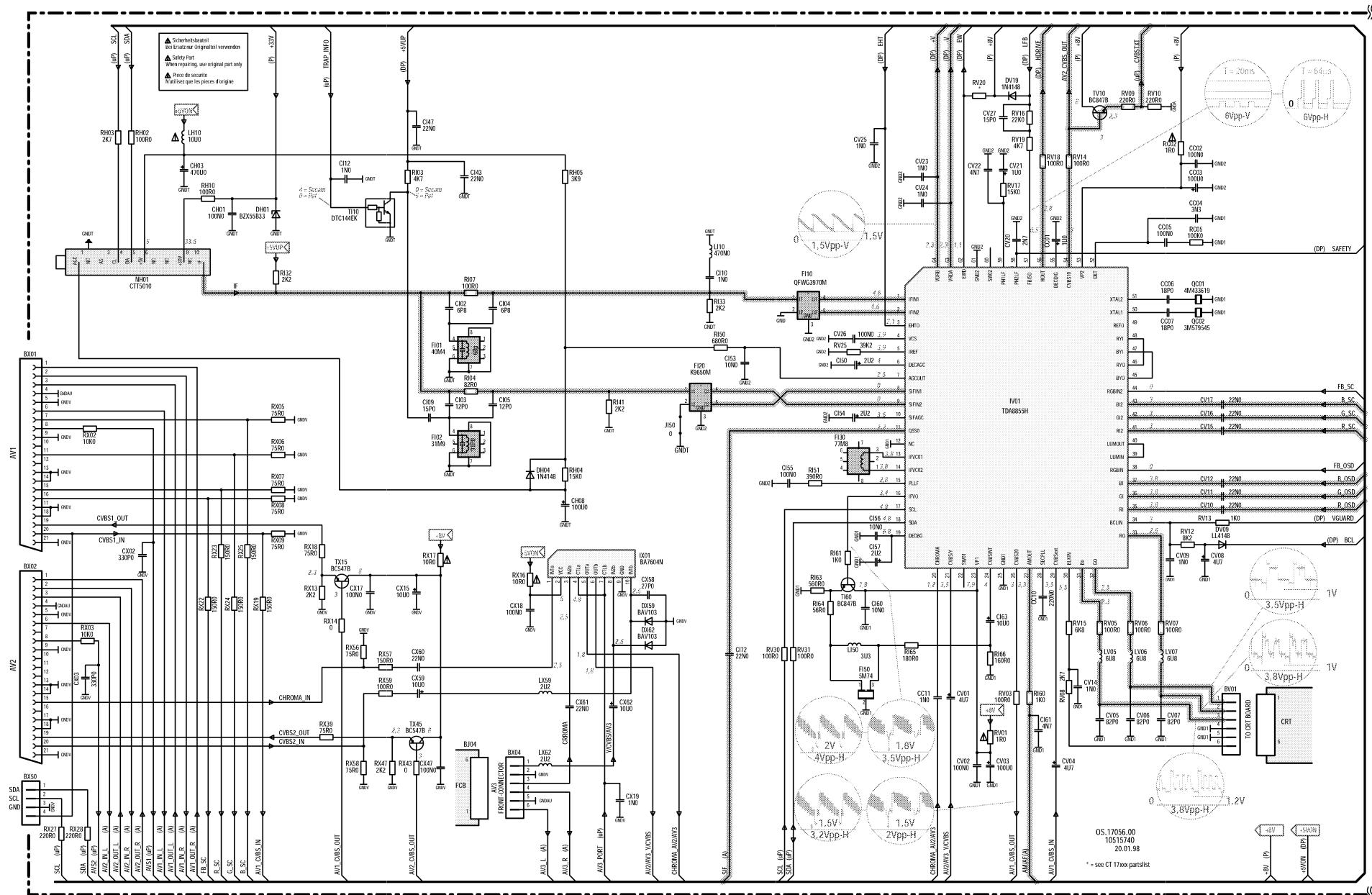
**CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS**



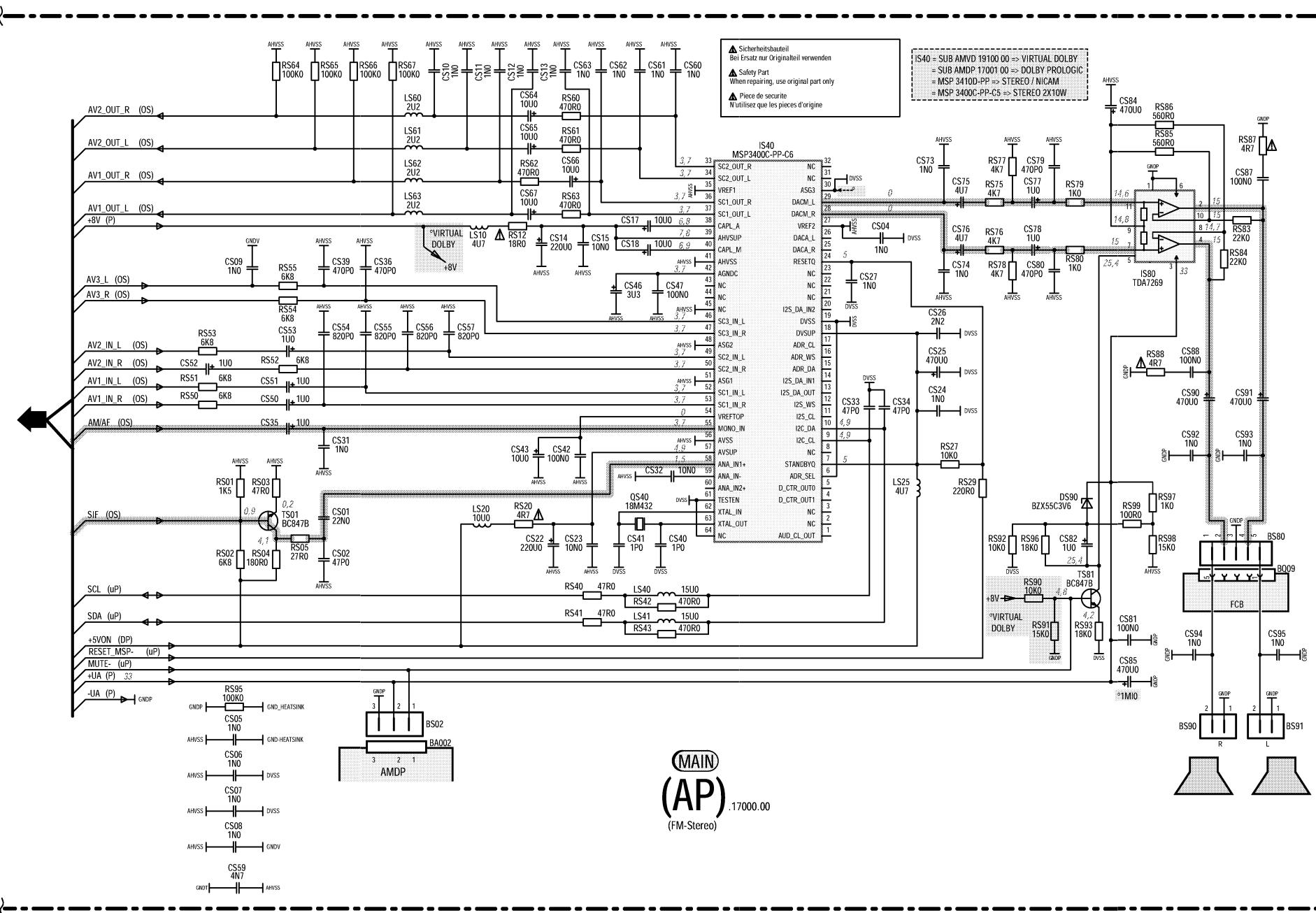
## **RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO**



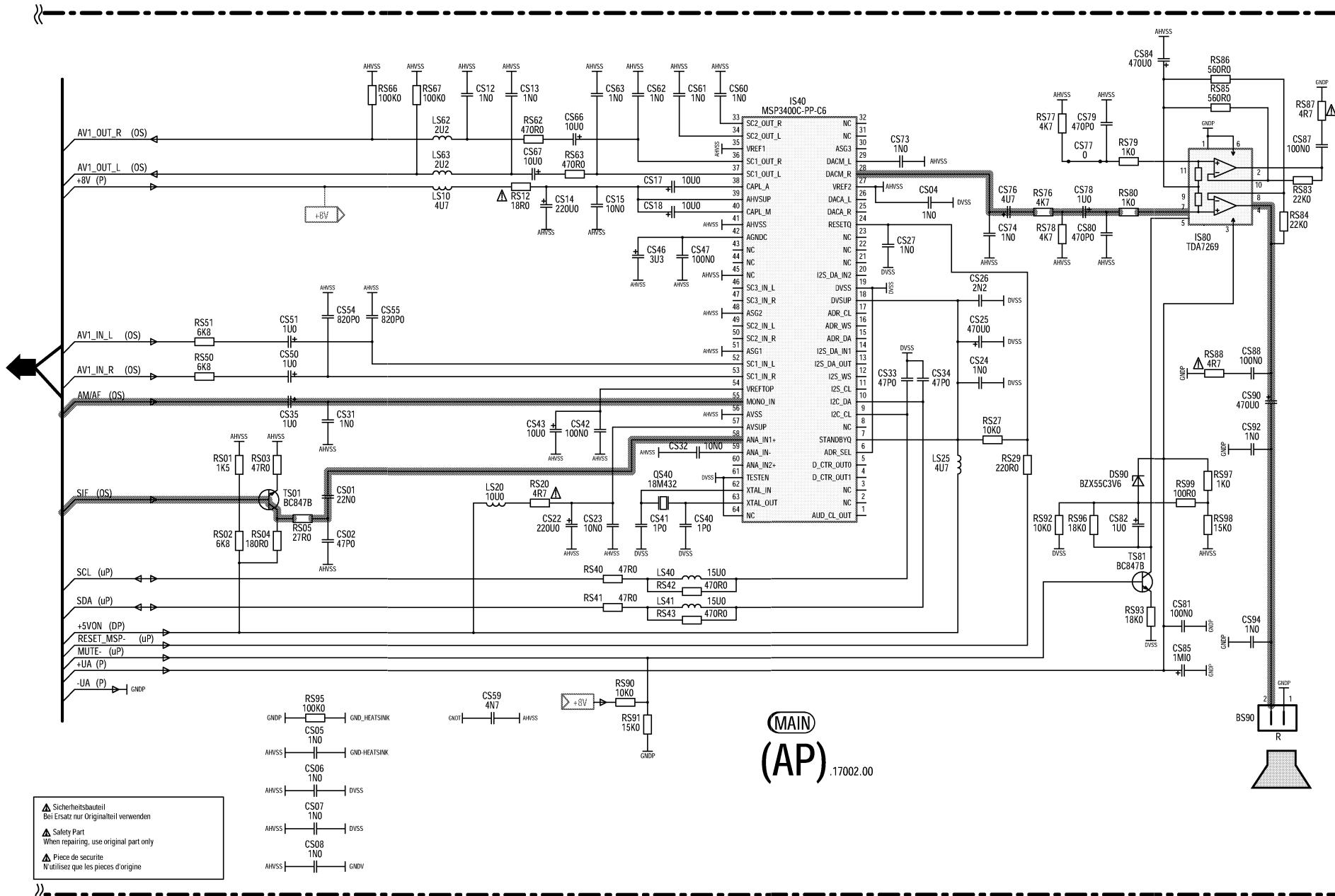
RF/FI / SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO  
 SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR/TRATAMENTO VIDEO



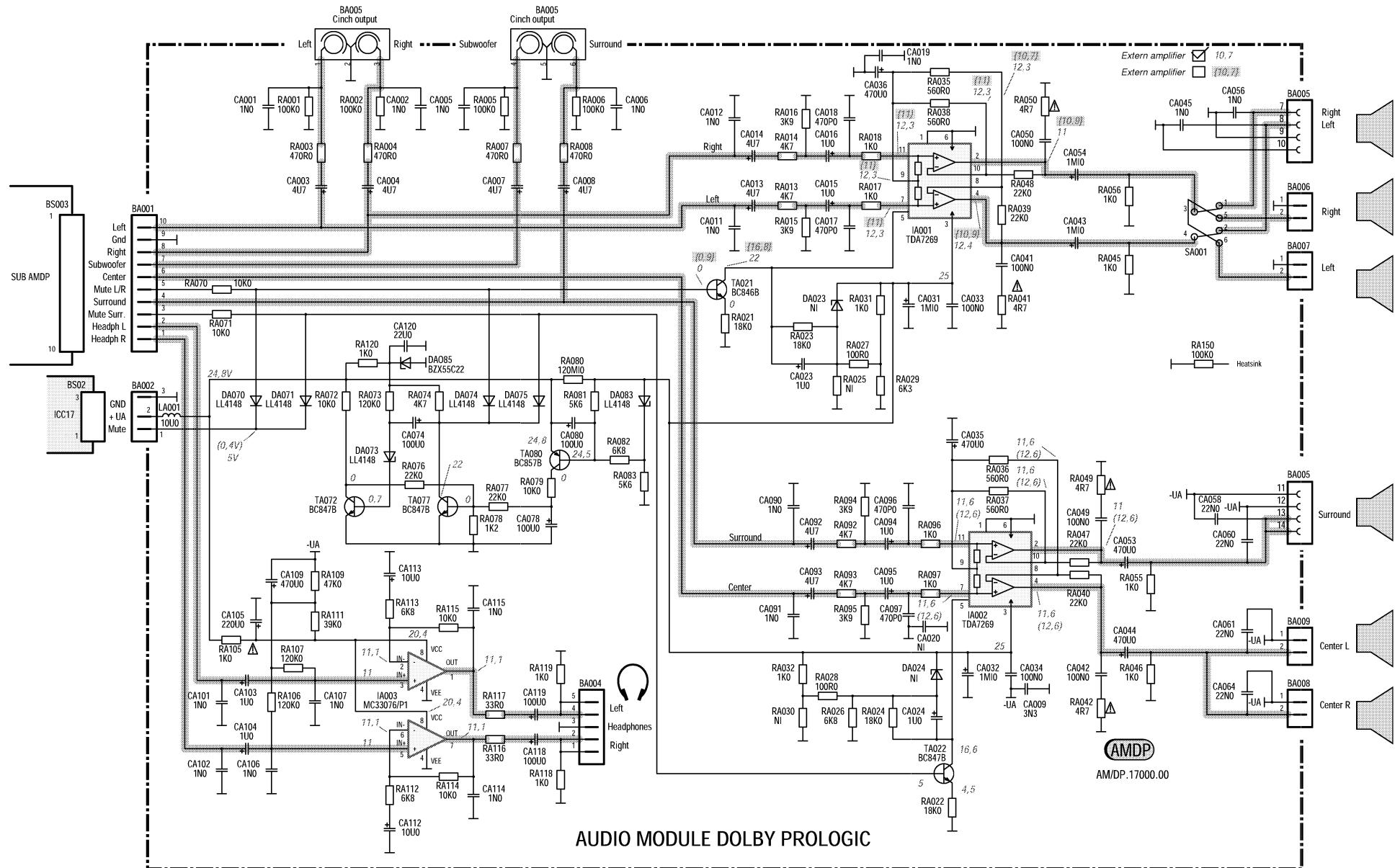
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
 ESQUEMA DEL AMPLIFICADOR (STEREO)



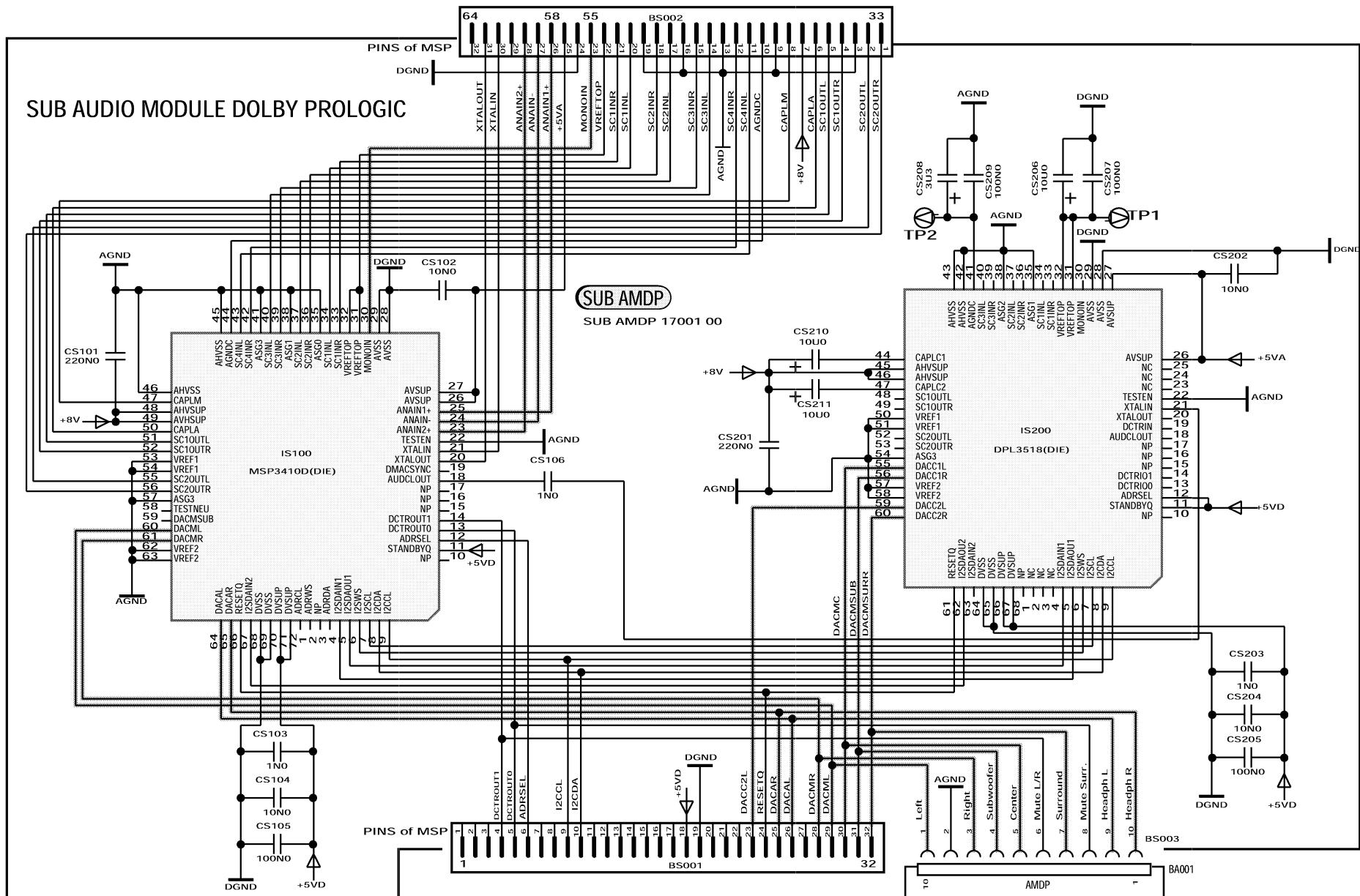
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE -  
ESQUEMA DEL AMPLIFICADOR  
(MONO)



AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC  
 ESQUEMA DEL MÓDULO AMPLIFICADOR DE AUDIO

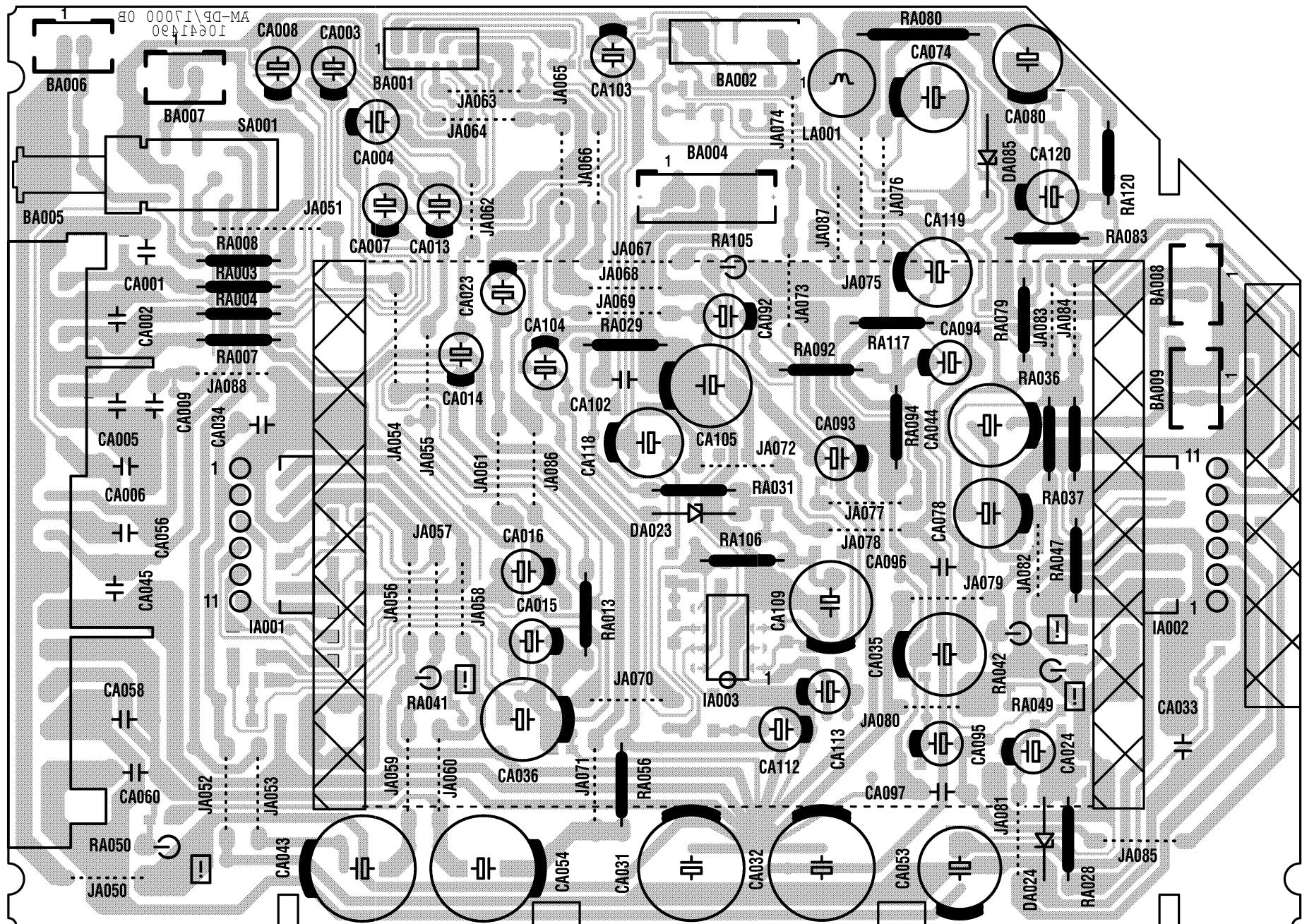


# SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



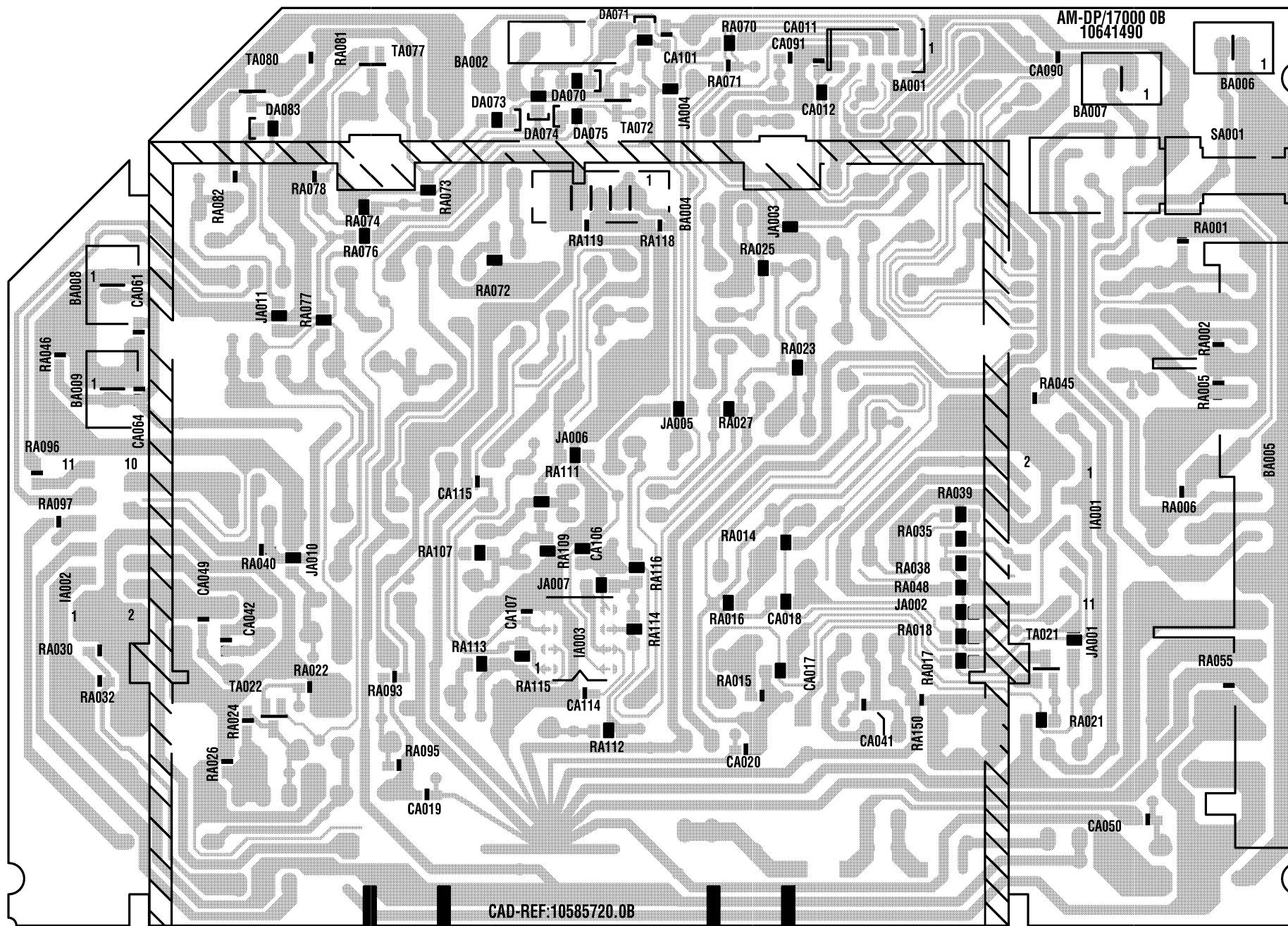
AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO  
DOLBY PROLOGIC - ESQUEMA DEL MÓDULO AMPLIFICADOR DE AUDIO

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



**AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC - ESQUEMA DEL MÓDULO AMPLIFICADOR DE AUDIO**

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



## **POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN**

(5) : standby

**Note :**  
During measurements in the power supply unit  
- Use the primary power unit ground (PCND)

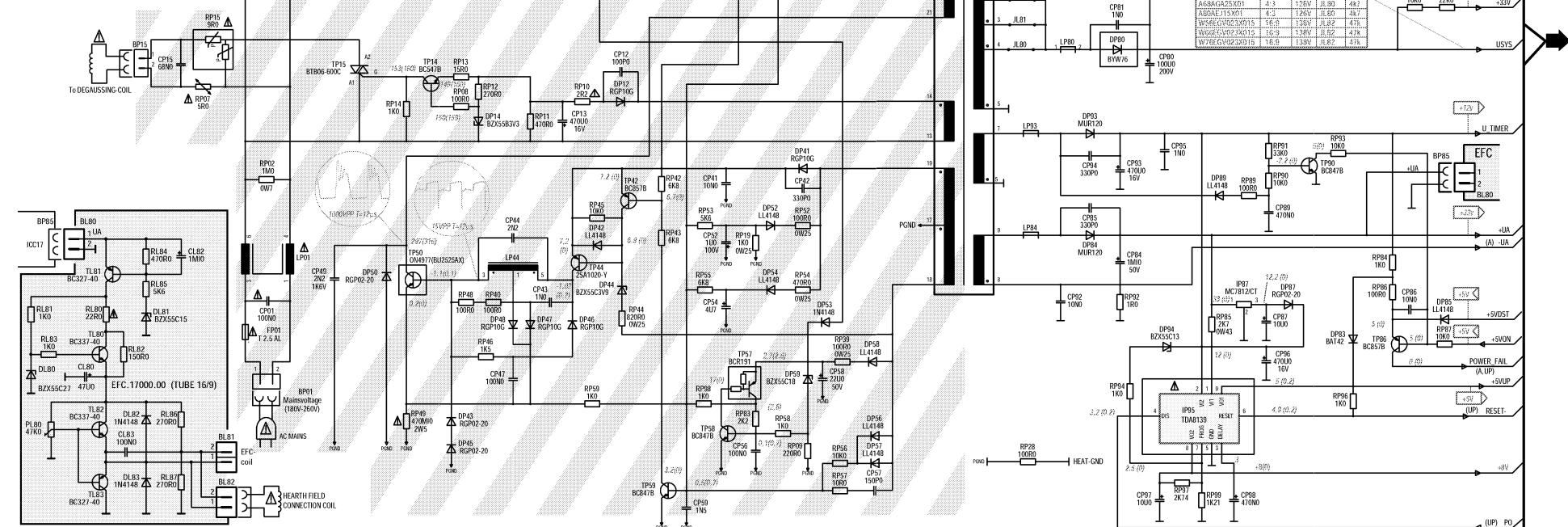
( PGND ).  
**Attention :**  
Mesure dans le bloc alimentation  
- Utiliser la masse du bloc alimentation  
( PGND ).  
**Achtung :**

Bei Messungen im Primärnetzteil  
- Primärnetzteilmasse verwenden  
( PGND ).  
**Attention:**

**Attenzione :**  
misure nell'alimentatore primario  
- usare massa alimentazione primario  
( PGND ).

Cuidado :  
Medida en el bloque de alimentacion  
- Utilizar la masa del bloque de  
alimentacion ( PGND ).

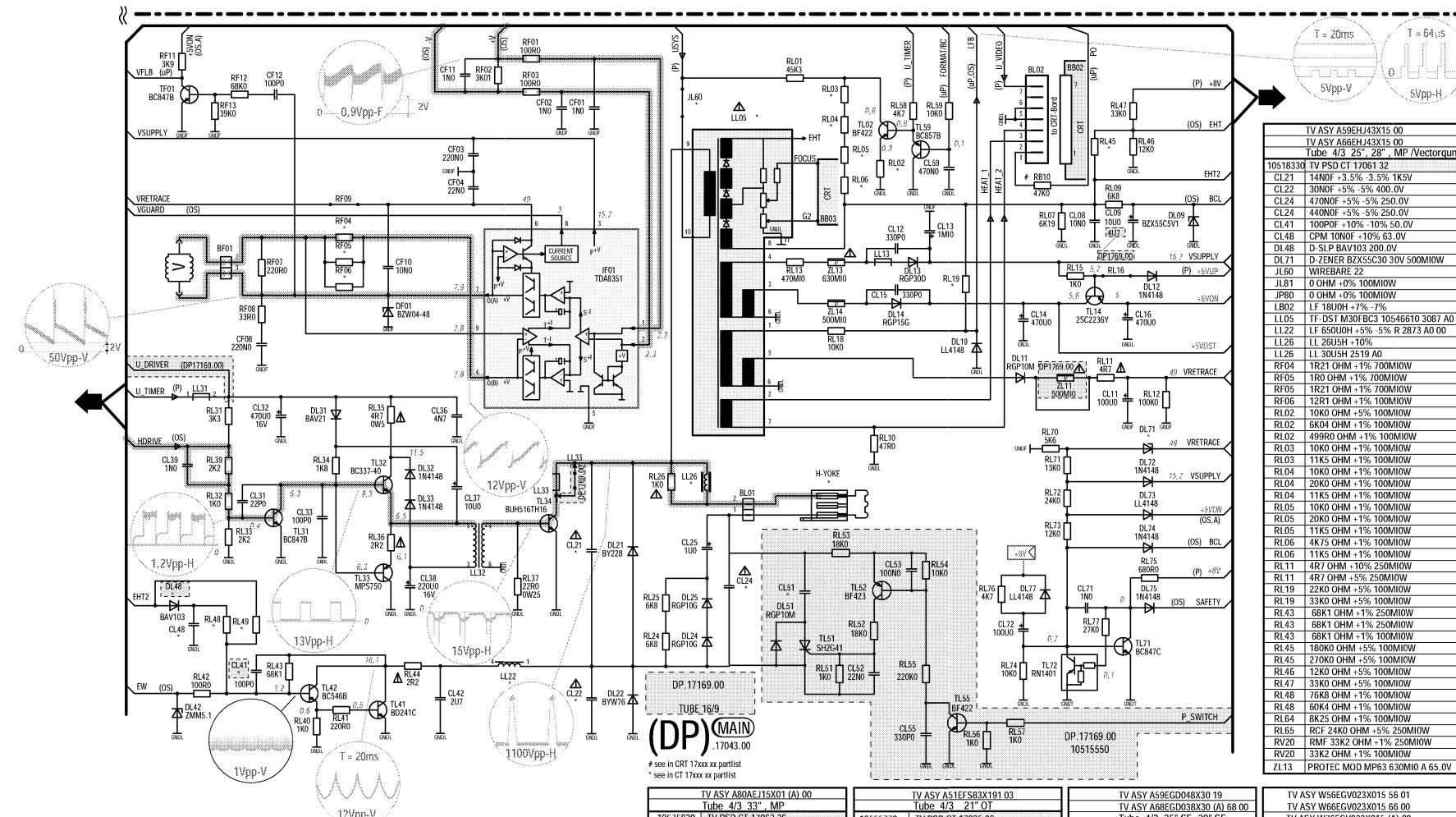
Part of board connected to mains supply.  
Partie du châssis reliée au secteur.  
Primärseite des Netzteils.  
Parte dello chassis collegata alla rete.  
Parte del chassis conectar a la red.



!

Use isolating mains transformer - Utiliser un transformateur isolateur du secteur -Einen Trenntrafo verwenden  
Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarsi dalla rete

**SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE**



 Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole  ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.

Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol  gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno  $\Delta$ ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el simbolo  $\Delta$ ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.

En ese caso, el fabricante cesa de ser responsable.

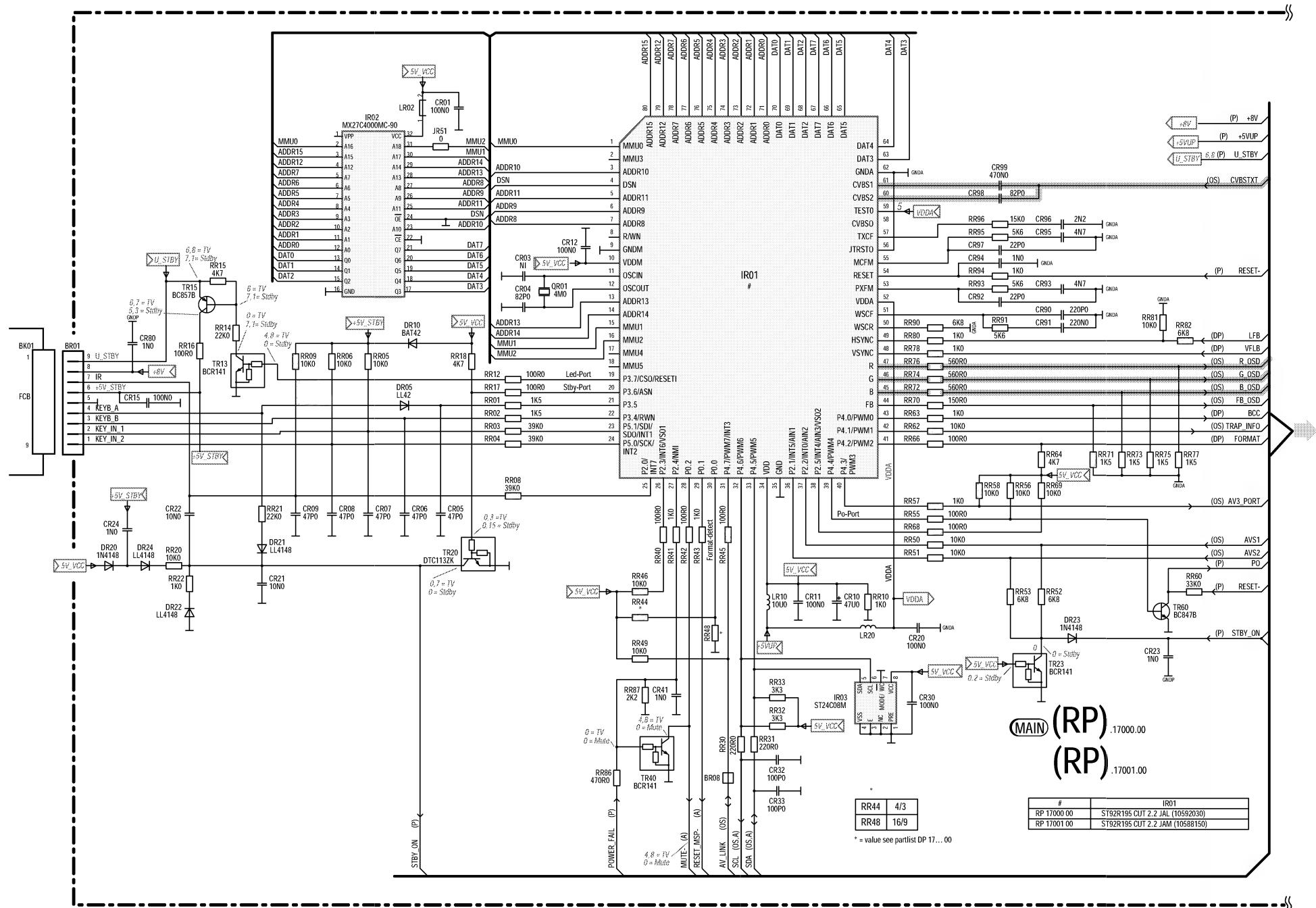
TIV ASY A08AE J1X501 (A) 00 Tube 4/3, "33", MP	
10575830	IVP FSD CL 17082.26
C1.21	16N2F - 3.5% - 3.5% 1K6V
C1.22	30N0F - 5% - 5% 400.0V
C1.24	56N0R +5% - 5% 250.0V
C1.41	100P0U +10% - 10% 50.0V
C1.48	10N0F +10% - 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-75ENER BXZ55C30 30V 500MIOM
JL60	WIREBARE
JL80	0 OHM -0.0% 100M10W
LB02	LJ 32UOH +4% -4%
I1.05	TF-STD TDS29 TBD 11
L1.22	LJ 650UOH +5% - 5% R 2873 A0
L1.26	LJ 28U5H +10%
RF05	1R21 OHM +1% 700MIOW
RF06	10R0 OHM +1% 100MIOW
RL02	6K04 OHM +1% 100MIOW
RL03	4K75 OHM +1% 100MIOW
RL04	4K75 OHM +1% 100MIOW
RL05	4K75 OHM +1% 100MIOW
RL06	6K91 OHM +1% 100MIOW
RL19	13K0 OHM +5% 100MIOW
RL45	150K0 OHM +5% 100MIOW
RL48	76K8 OHM +1% 100MIOW
RL49	56K0OHM +5% - 250MIOW
RL65	RCF 4K7 OHM +5% - 250MIOW
RU20	RMS 2.2K OHM +3% - 36.0MIOW

TV ASY A51EFS83X191.03	
Tube / 21", 21", 21"	
10555770	TV PSD CT 17035 26
CL21	8N3P -3.5% -3.5% 1K6V
CL22	3NN3P -5% 5% 1KOV
CL24	440NF -5% 5% 250.0V
CL41	1N0F -10% 10% 50.0V
DL71	D-7ENR BZK55C-24 24V 500MIOW
JL60	WIREBARE 22
JL80	0 OHM -0% 100MIOW
LB02	FL 18UOH -1% 7%
LL05	TF-DST M30FBC3 10555640 3087A
LL22	FL 650UOH -1% 273K A0
LL26	LL 850UOH 2515 A0
RF05	1R5 OHM -1% 200MIOW
RF06	10R0 OHM -1% 100MIOW
RL02	6K04 OHM -1% 100MIOW
RL03	10K0 OHM -1% 100MIOW
RL04	10K0 OHM -1% 100MIOW
RL05	10K0 OHM -1% 100MIOW
RL06	32K3 OHM -1% 100MIOW
RL45	110K0 OHM +3% 100MIOW
RL49	60K4 OHM -1% 100MIOW
RL65	4K0 OHM +5% 250MIOW

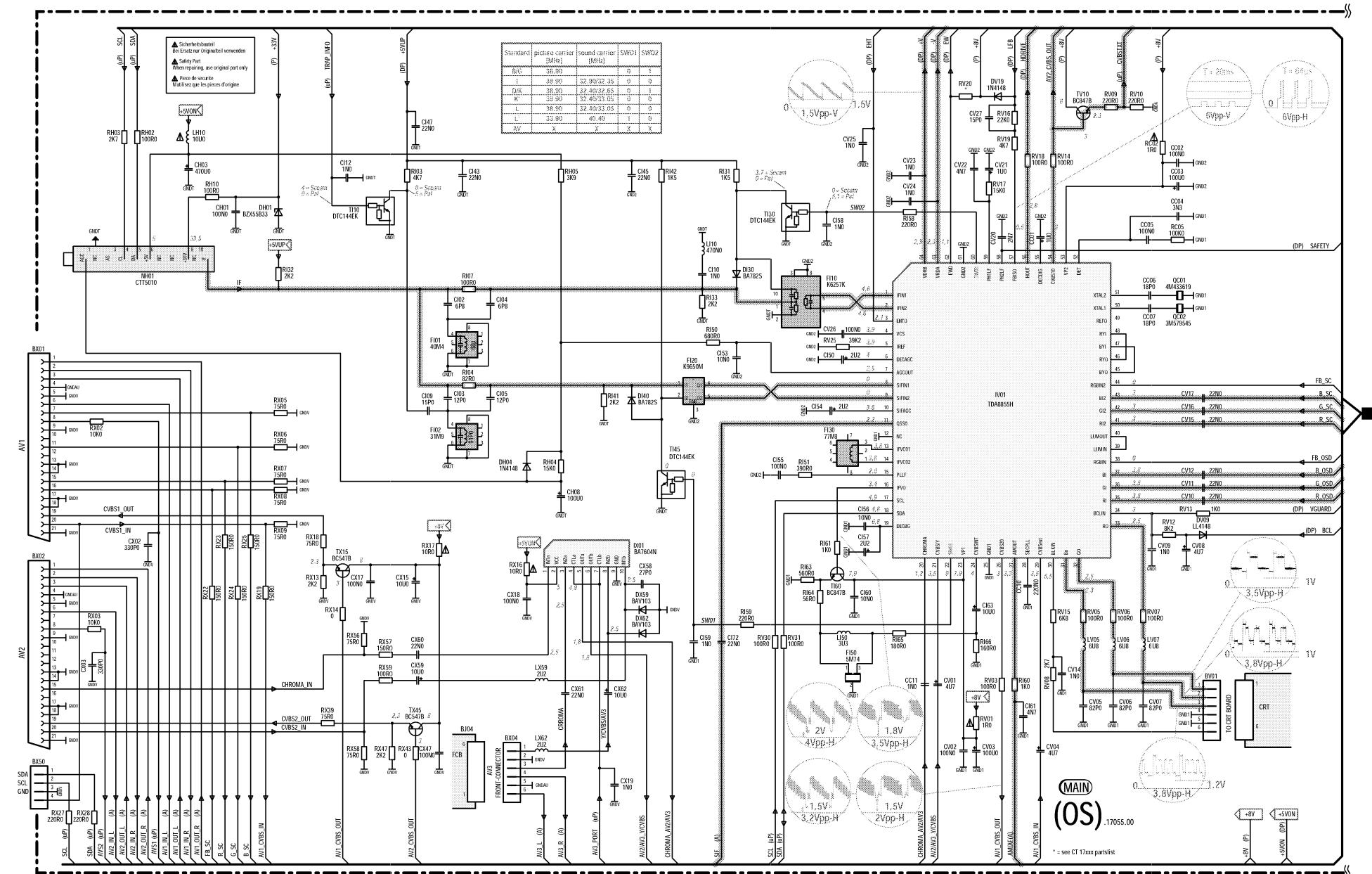
IV	ASY	A59EGD04BX30_19
IV	ASY	A8ECGDD03BX30_19
Tube	4/3	100% 29 SF
10515520	IV	PSD CT 17071 26
CL21	16N2F-3.5%	-3.5% -1K6V
CL22	30N0F	-5% -5% 400.0V
CL24	510N0E	-5% -5% 250.0V
CL41	100P0F	-10% -10% 50.0V
CL48	10N0F	-10% 63.0V
DL48	D-SLP	BAT103 200.0V
DL71	D-ZENER	BZ55C50 30V 500M10W
JL60	WIREBARE	22
JL80	0 OHM	-0% 100M10W
L802	LF 32U0H	-4% -4%
LL05	TF DST	D529 1BD 13
LL22	LF 650U0H	-5% -5%
LL26	LL 26U9H	-10%
RF05	RMF	1R0 OHM -1% 700M10W
RU02	6KH 0.8MM	-5% 100M10W
RU03	4K75 OHM	-1% 100M10W
RU04	4K75 OHM	-1% 100M10W
RU05	4K75 OHM	-1% 100M10W
RU06	4K75 OHM	-1% 100M10W
RU19	15K0 OHM	-5% 100M10W
RU45	180K0 OHM	-5% 100M10W
RU48	100K0 OHM	-5% 100M10W
RU49	300K0 OHM	-5% 100M10W
RU65	4K7 OHM	-5% 250M10W
RV09	323U0H	-1% 360M10W

TV ASY	W56EGV02X3015	56.01				
TV ASY	W66EGV02X3015	66.00				
TV ASY	W67EGV02X3015	(A)00				
Tube 16	19.4"	24"	28.3"	32"	SCF	/vectorqun
051530	TV PSD	C1	1073.88			
CL21	15N5F	-5%	-3.5%	-5.5%	-1K6V	
CL22	27NOF	+5%	+5%	+400	0V	
CL24	44N00F	+5%	+5%	+250	0V	
CL41	100N0F	+10%	+10%	+50	0.0V	
CL48	100N0F	+5%	+6.3	0V		
CL51	290N0F	+5%	+5%	+250	0V	
DL48	D-SLP VMA	103	200	0V		
DL71	D-ZENER	BZ55C24	24V	500M10W		
JL60	WIREBARE	22				
JL82	UD OHM	-0.5%	+100	MI0W		
LB02	FL 32UOH	-4%	+3%			
LL05	DT-TDS	S29	15314460	10		
LL22	FL 65UOH	+5%	+5%			
LL26	LL 30UHS	2519	A0			
RF05	1R21OH	Am+	1%	700MI0W		
RL02	4K9H OH	Am+	1%	100MI0W		
RL03	6K49 OH	Am+	1%	100MI0W		
RL04	6K49 OH	Am+	1%	100MI0W		
RL05	6K49 OH	Am+	1%	100MI0W		
RL06	2K37 OHM	Am+	1%	100MI0W		
RL19	13K OHM	Am+	5%	100MI0W		
RL45	390K OHM	Am+	5%	100MI0W		
RL48	220K OHM	Am+	5%	100MI0W		
RL49	180K OHM	Am+	5%	100MI0W		
RL65	47K OHM	Am+	5%	250MI0W		
RV20	100K OHM	Am+	1%	250MI0W		

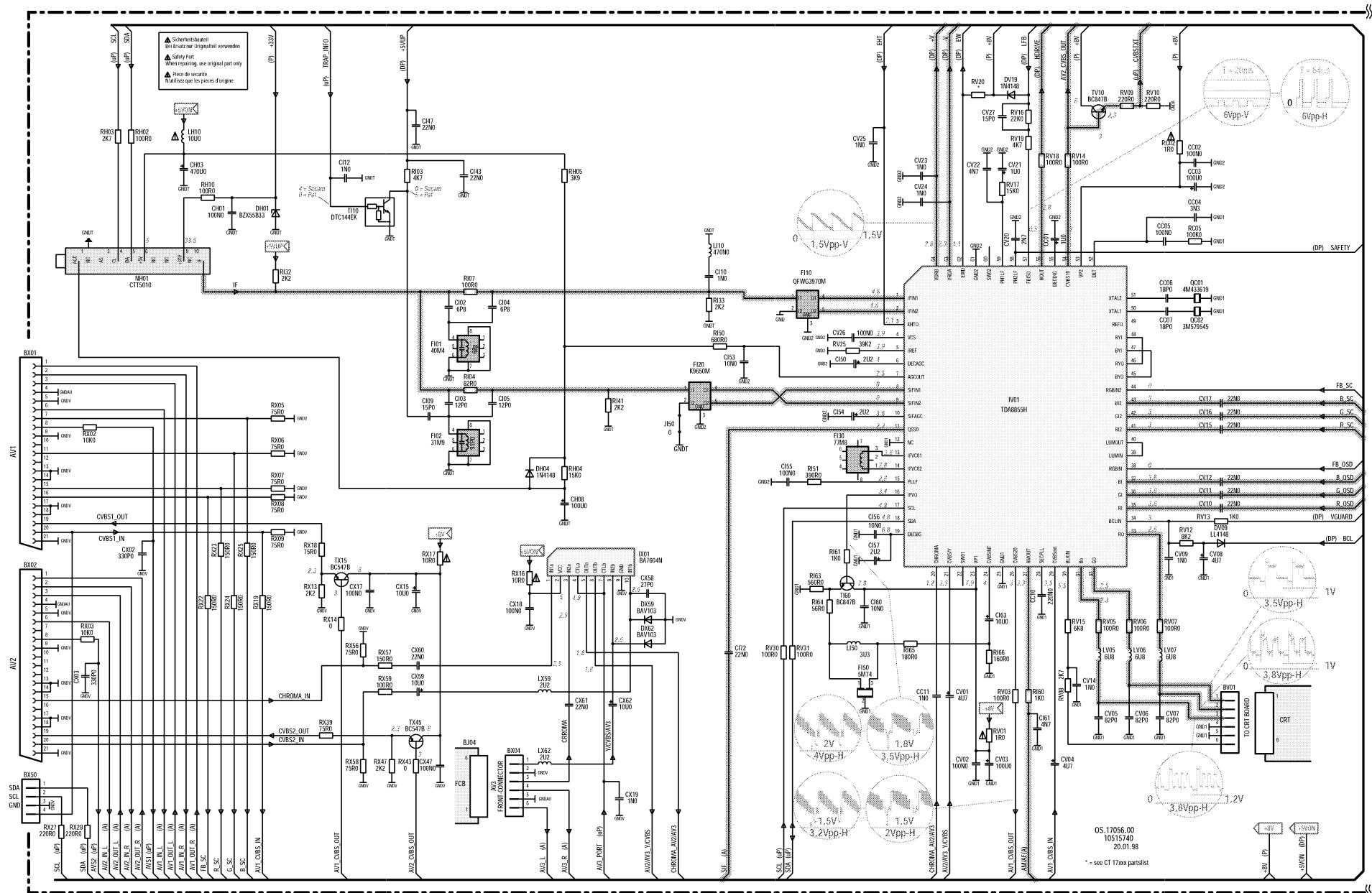
CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



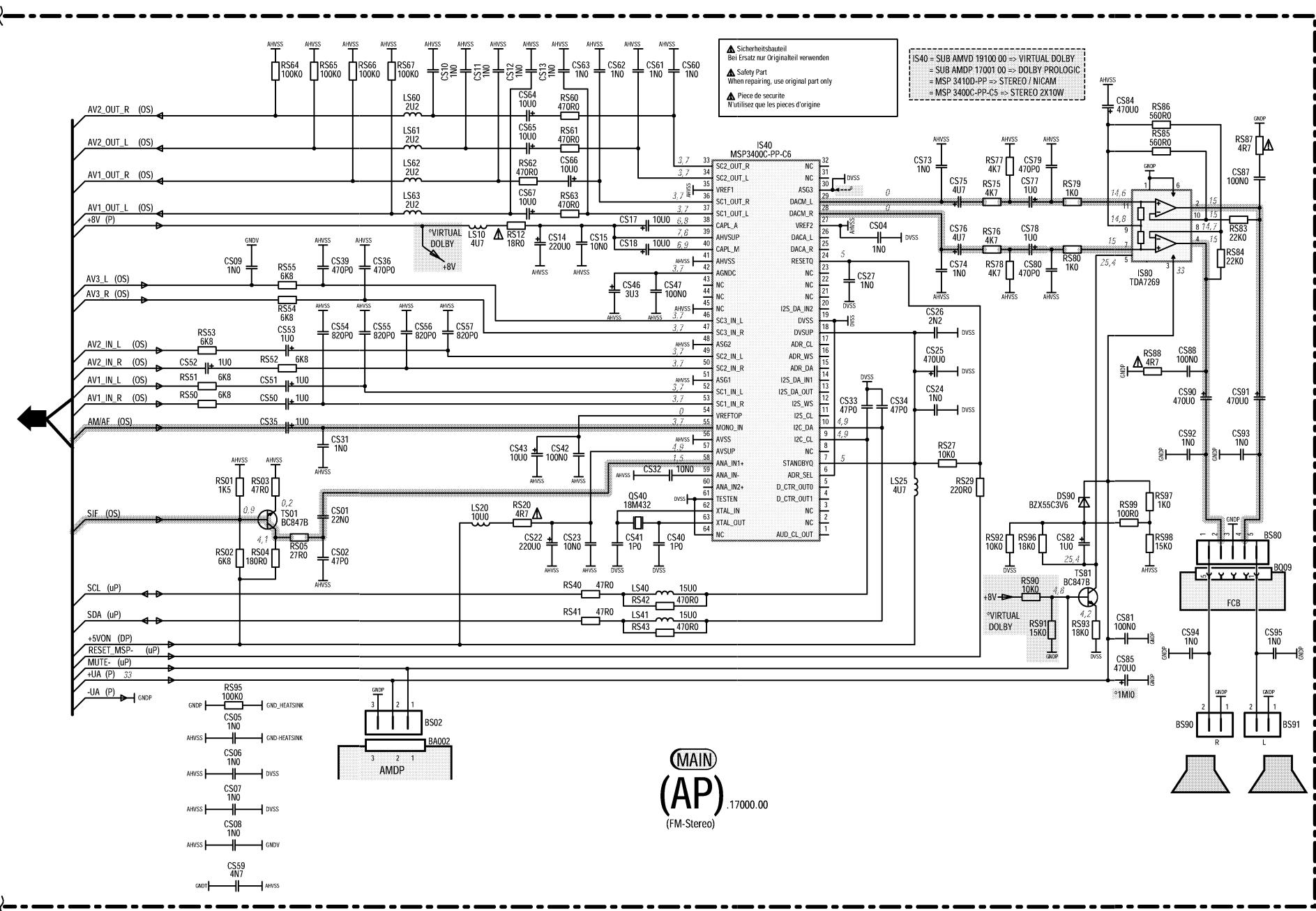
# RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO



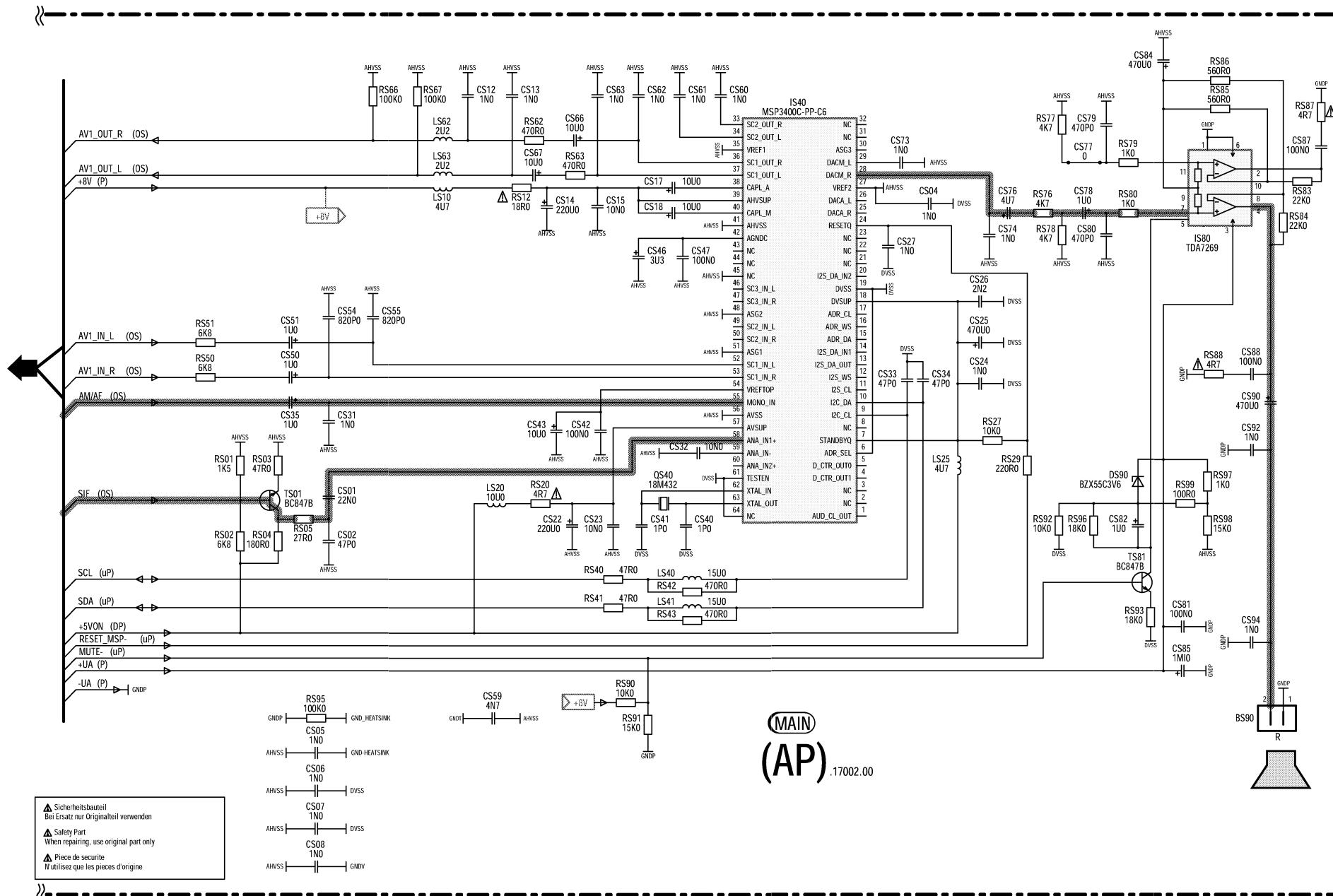
## RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



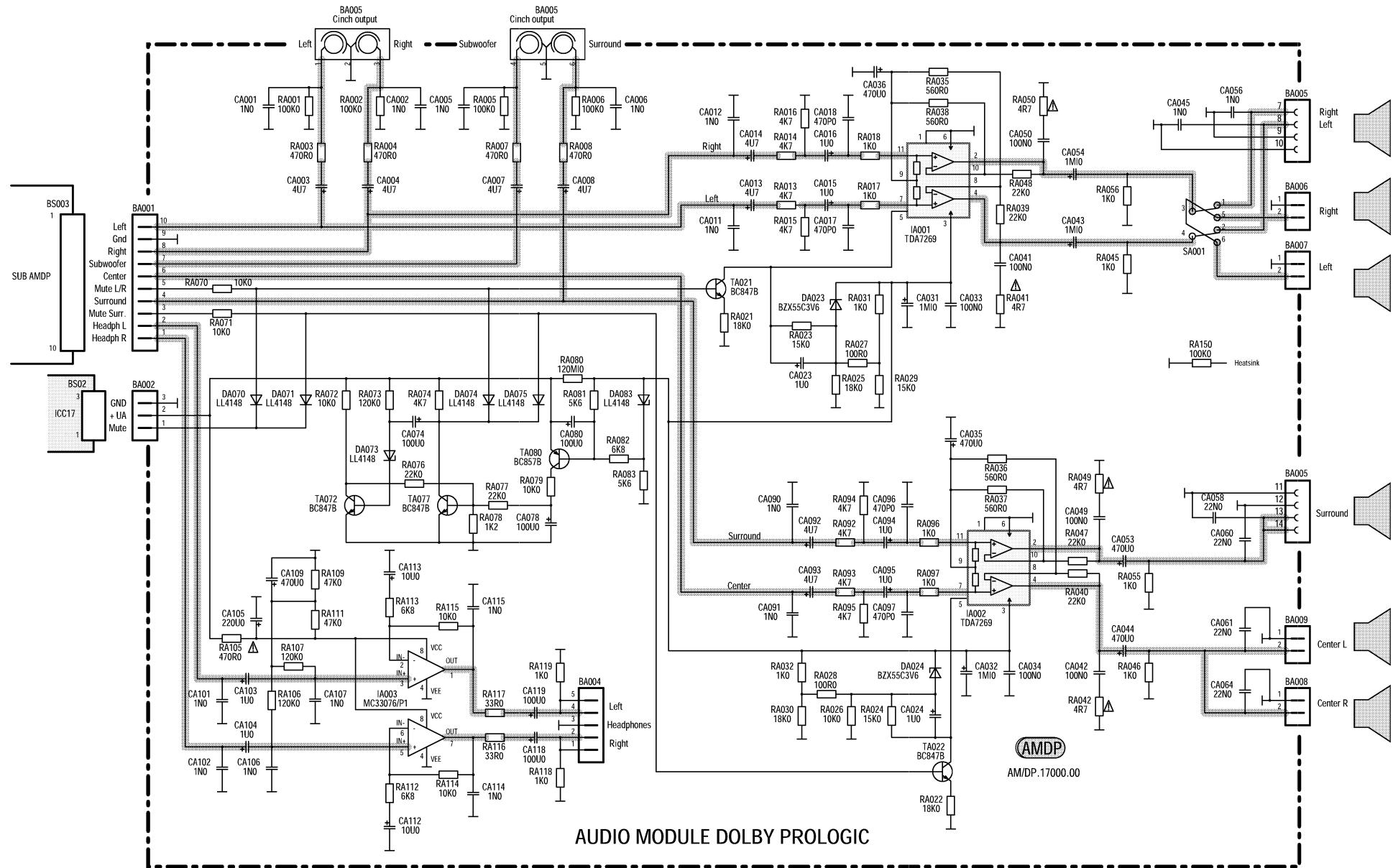
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
 ESQUEMA DEL AMPLIFICADOR (STEREO)



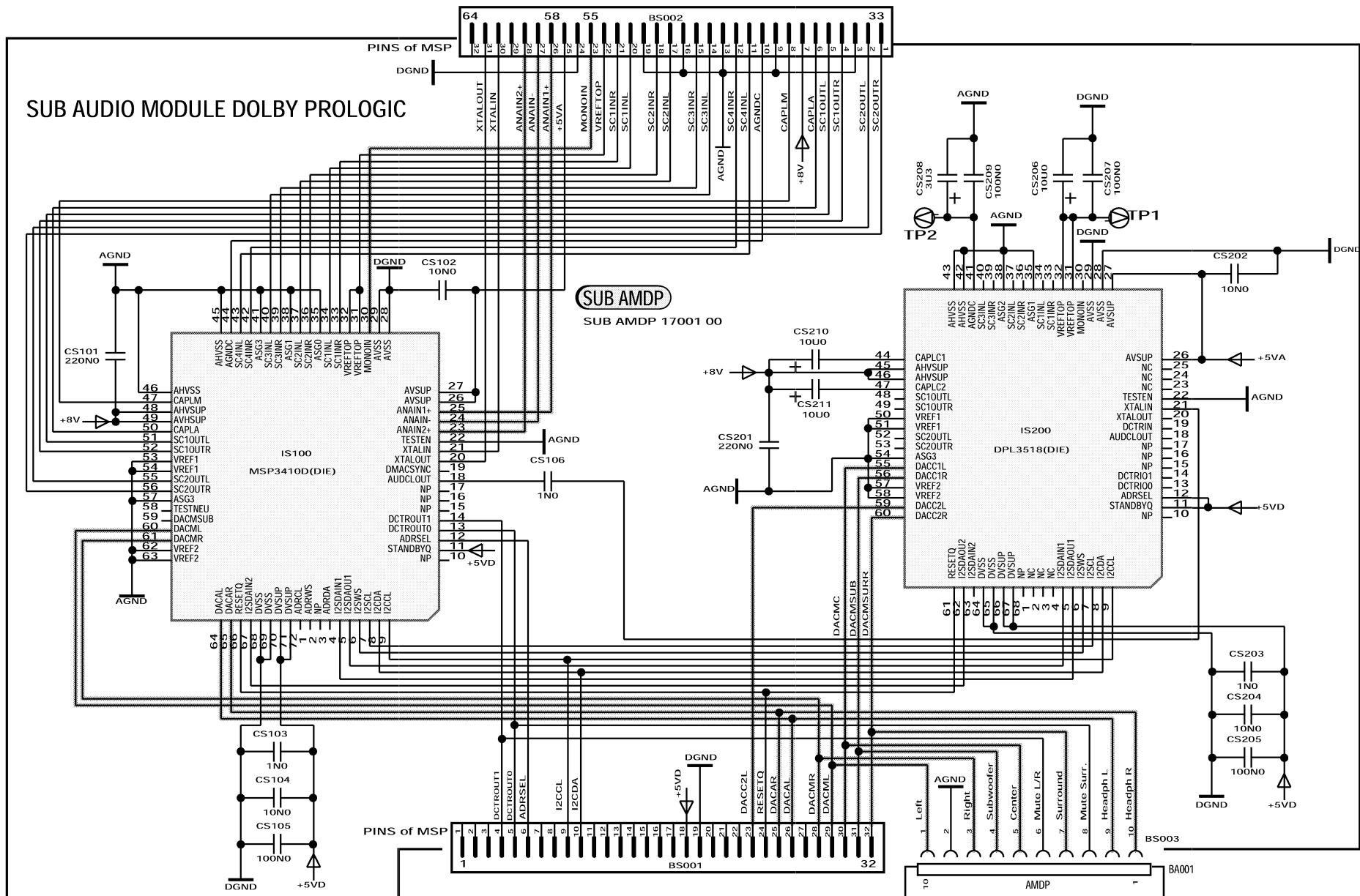
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE -  
ESQUEMA DEL AMPLIFICADOR  
(MONO)

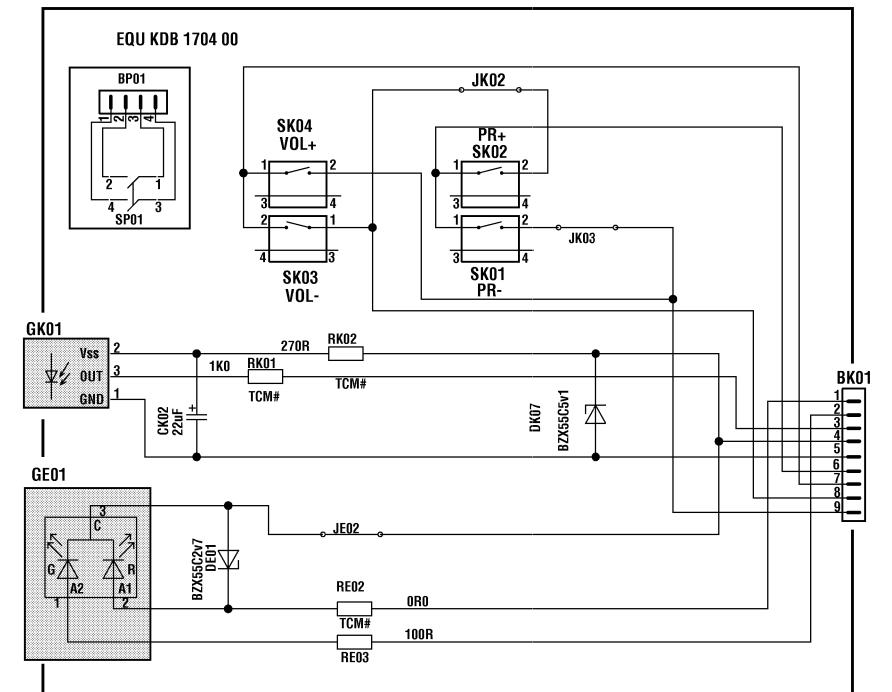
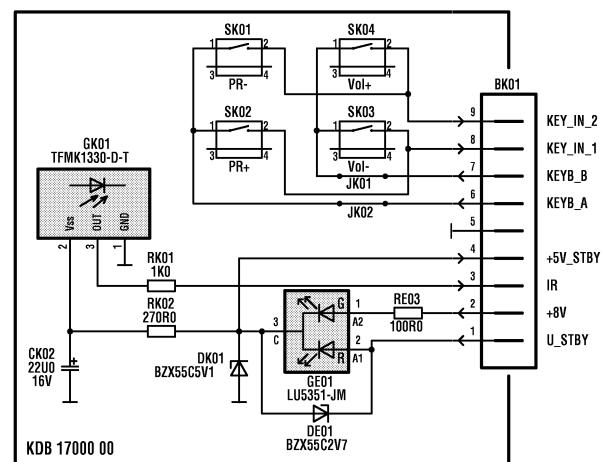
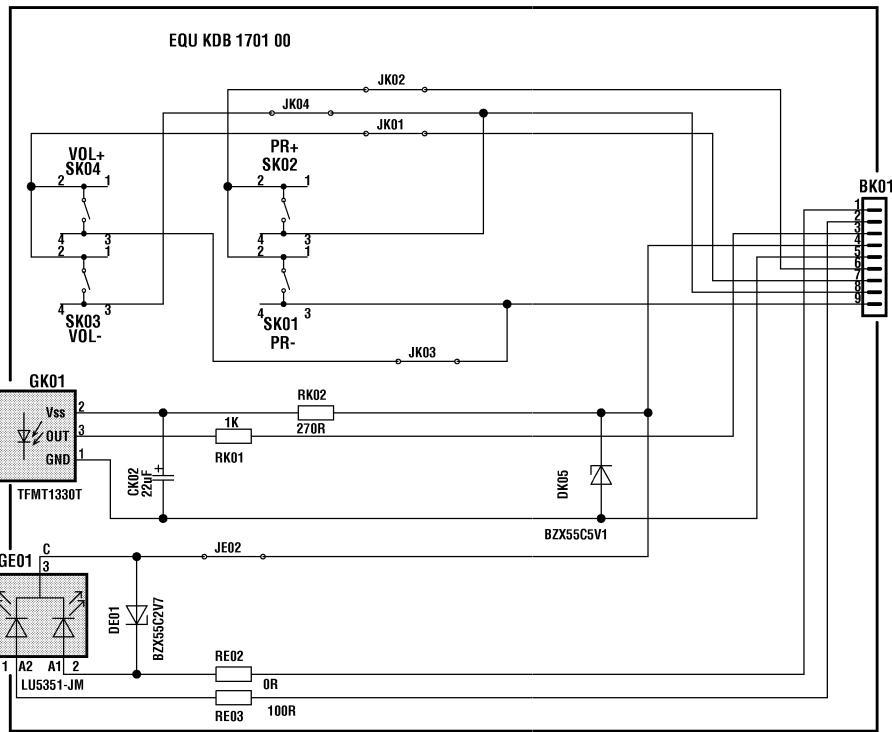
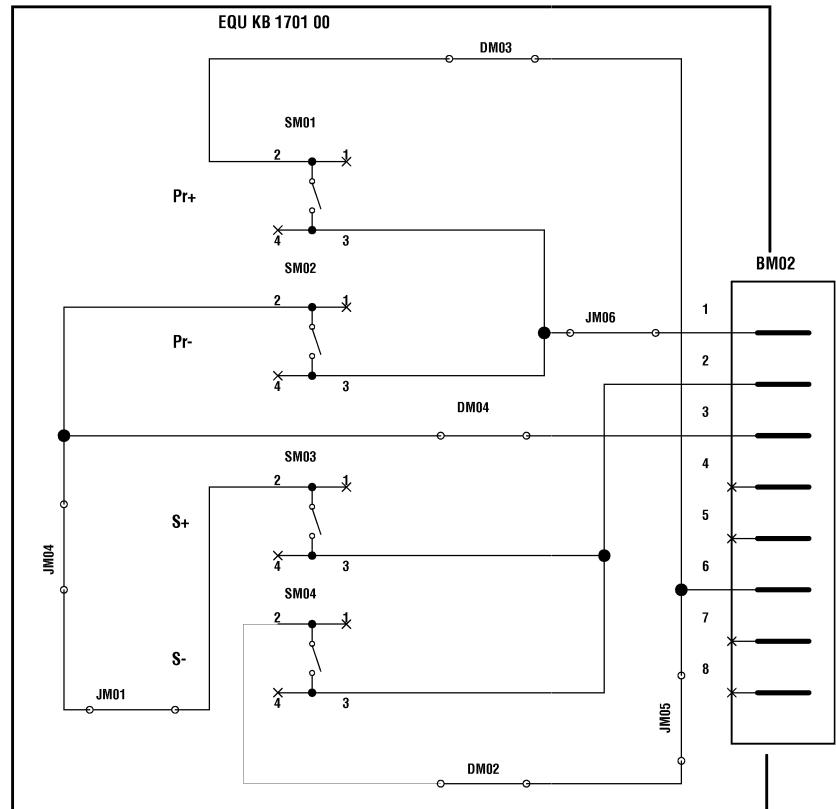


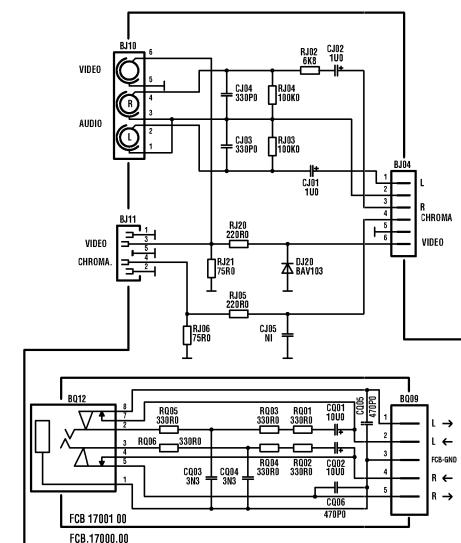
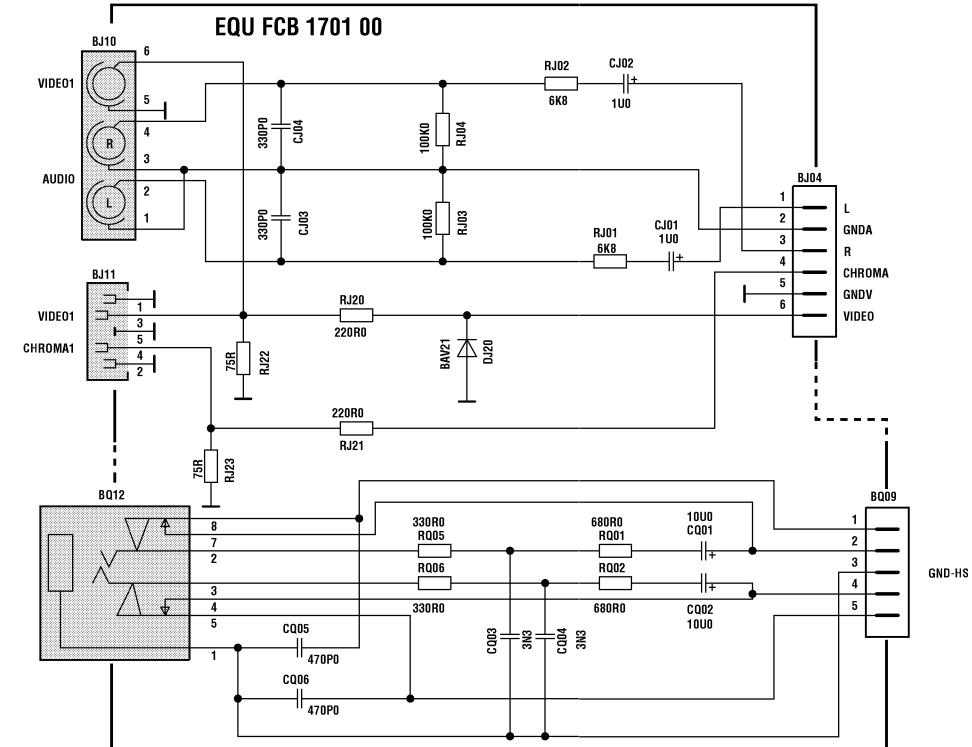
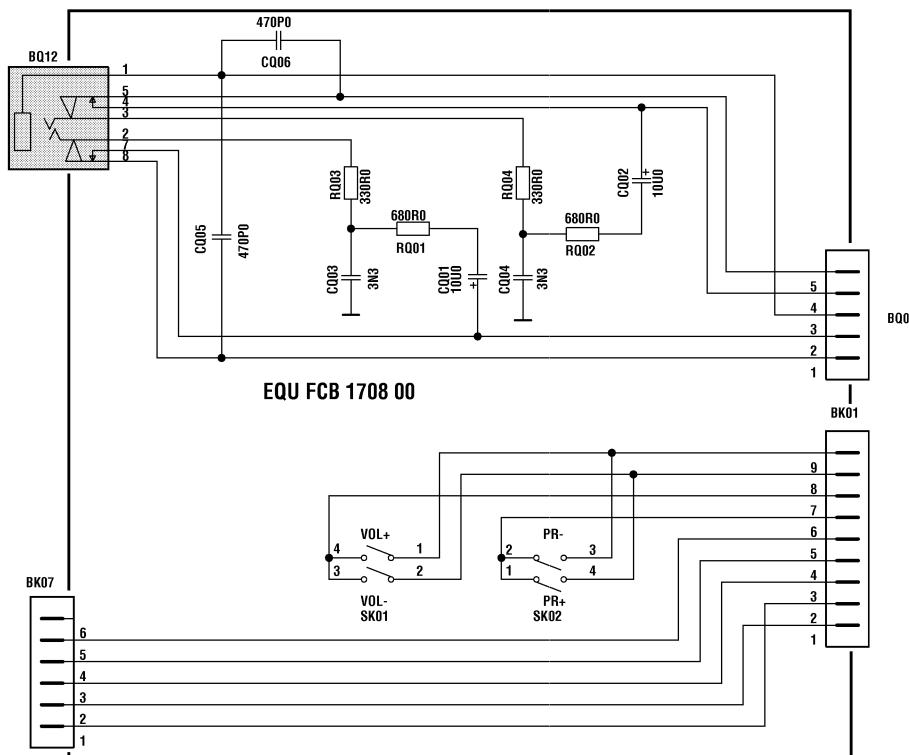
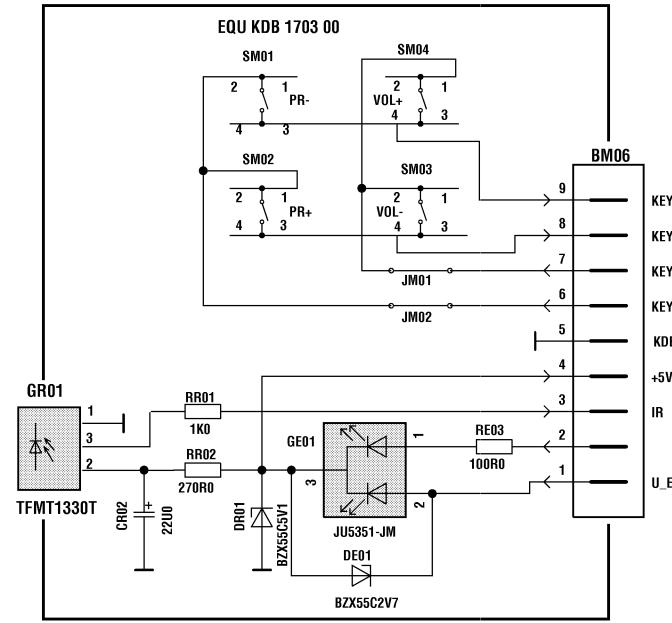
AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC  
 ESQUEMA DEL MÓDULO AMPLIFICADOR DE AUDIO

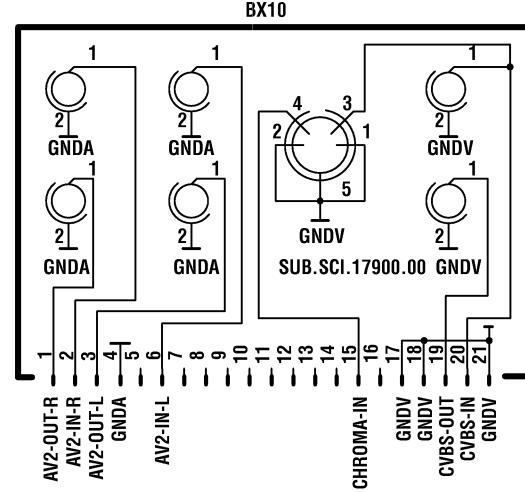
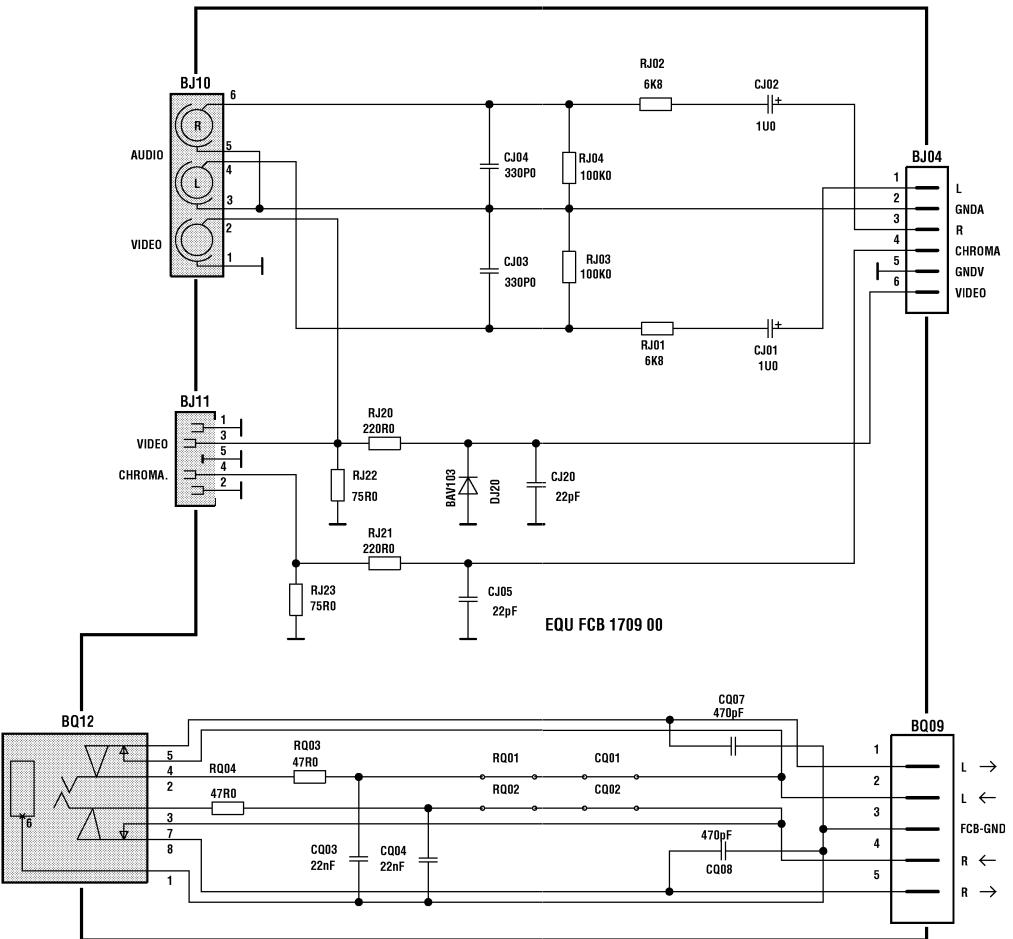
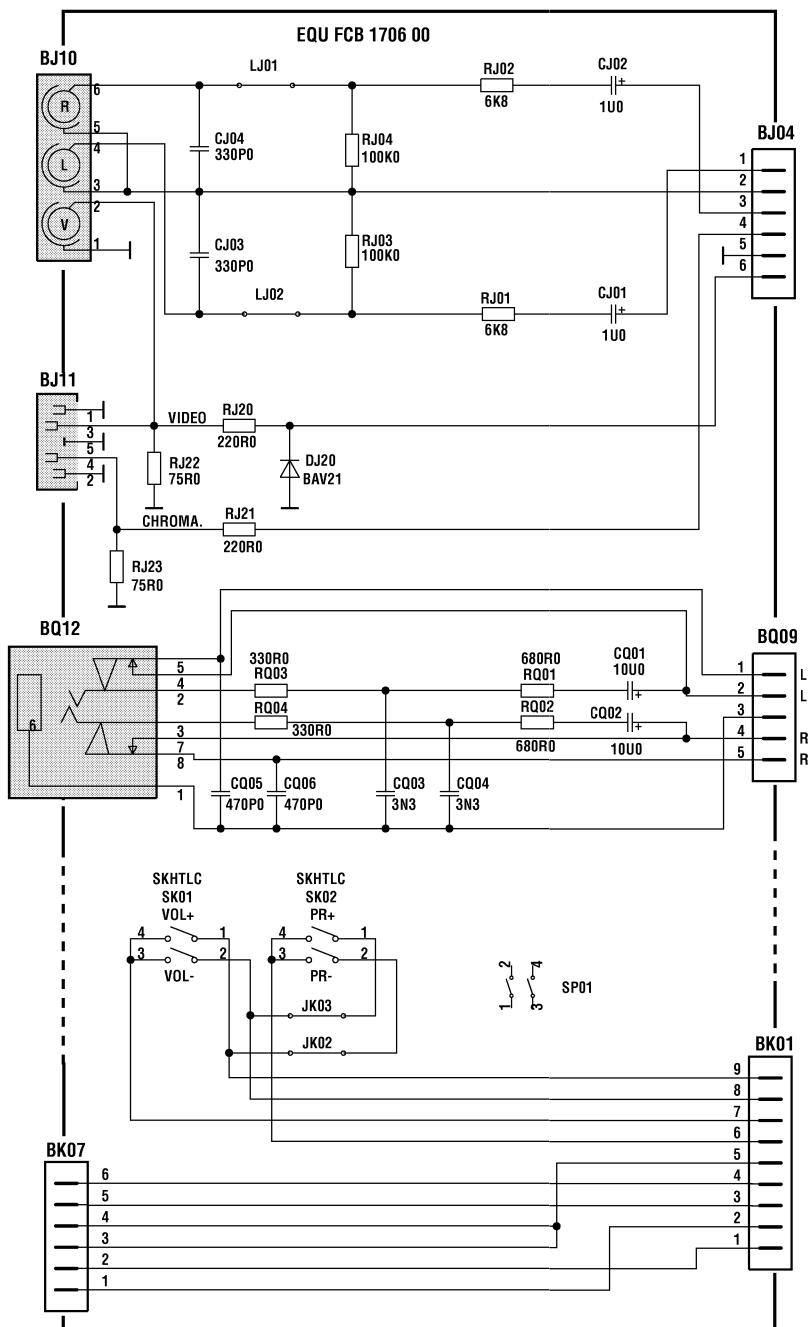


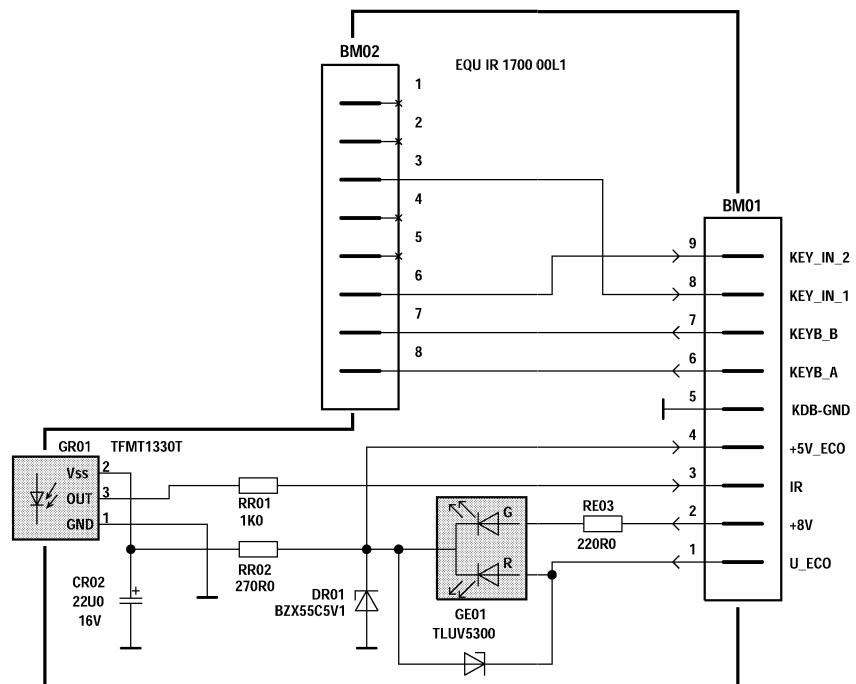
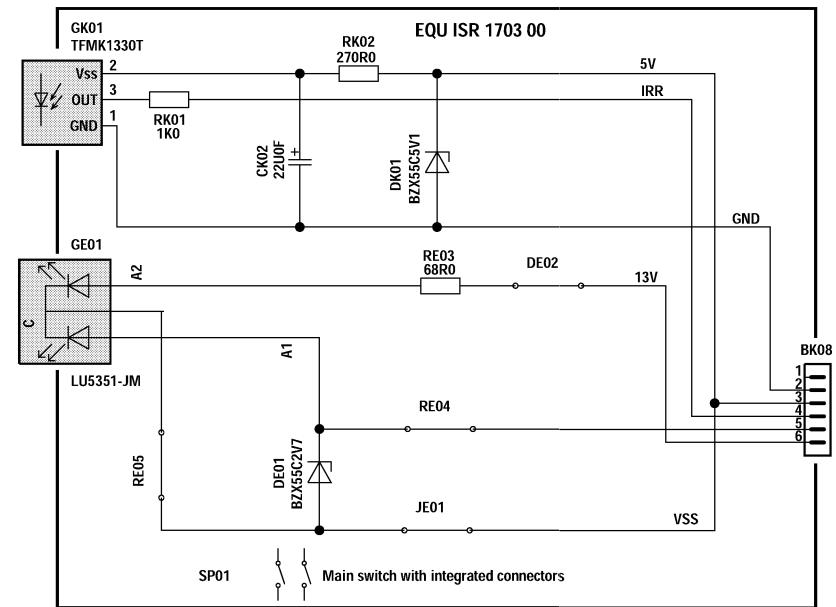
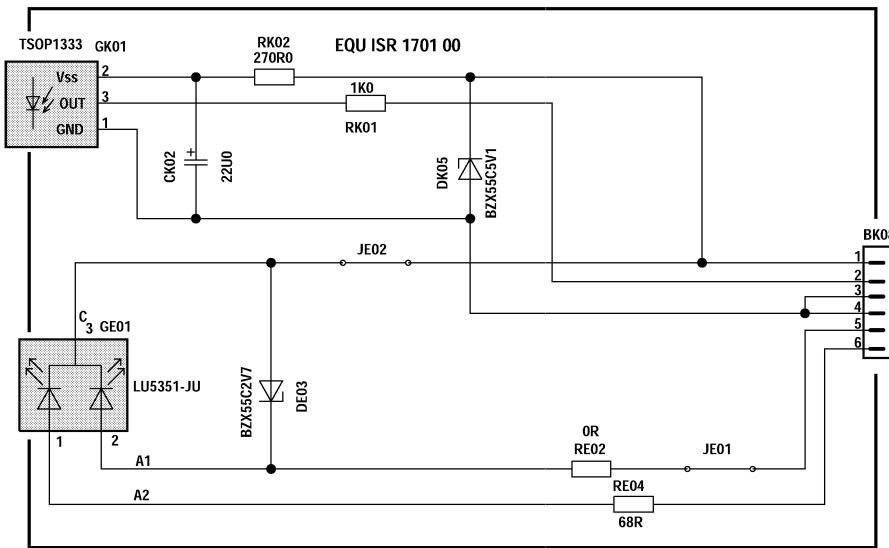
# SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



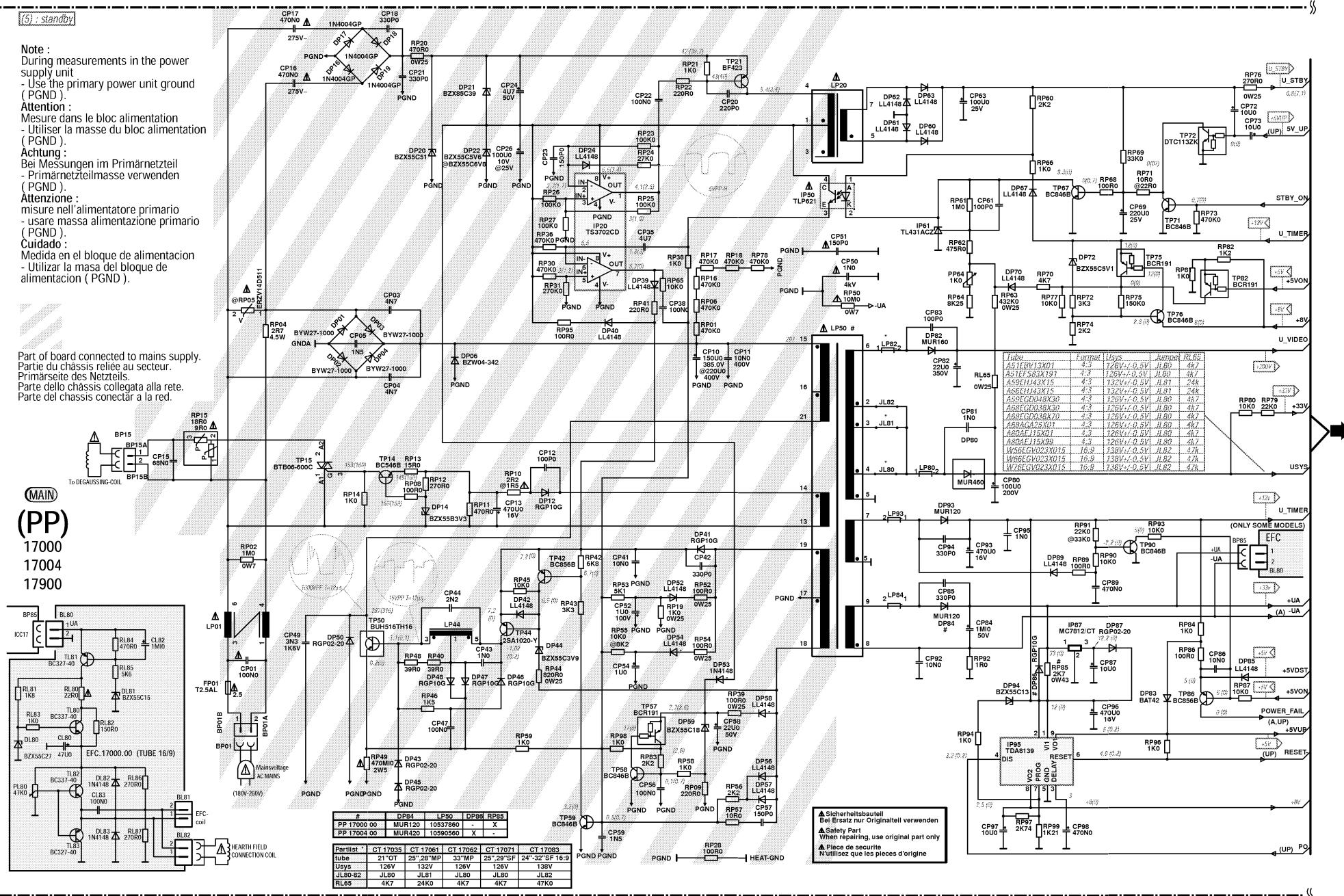




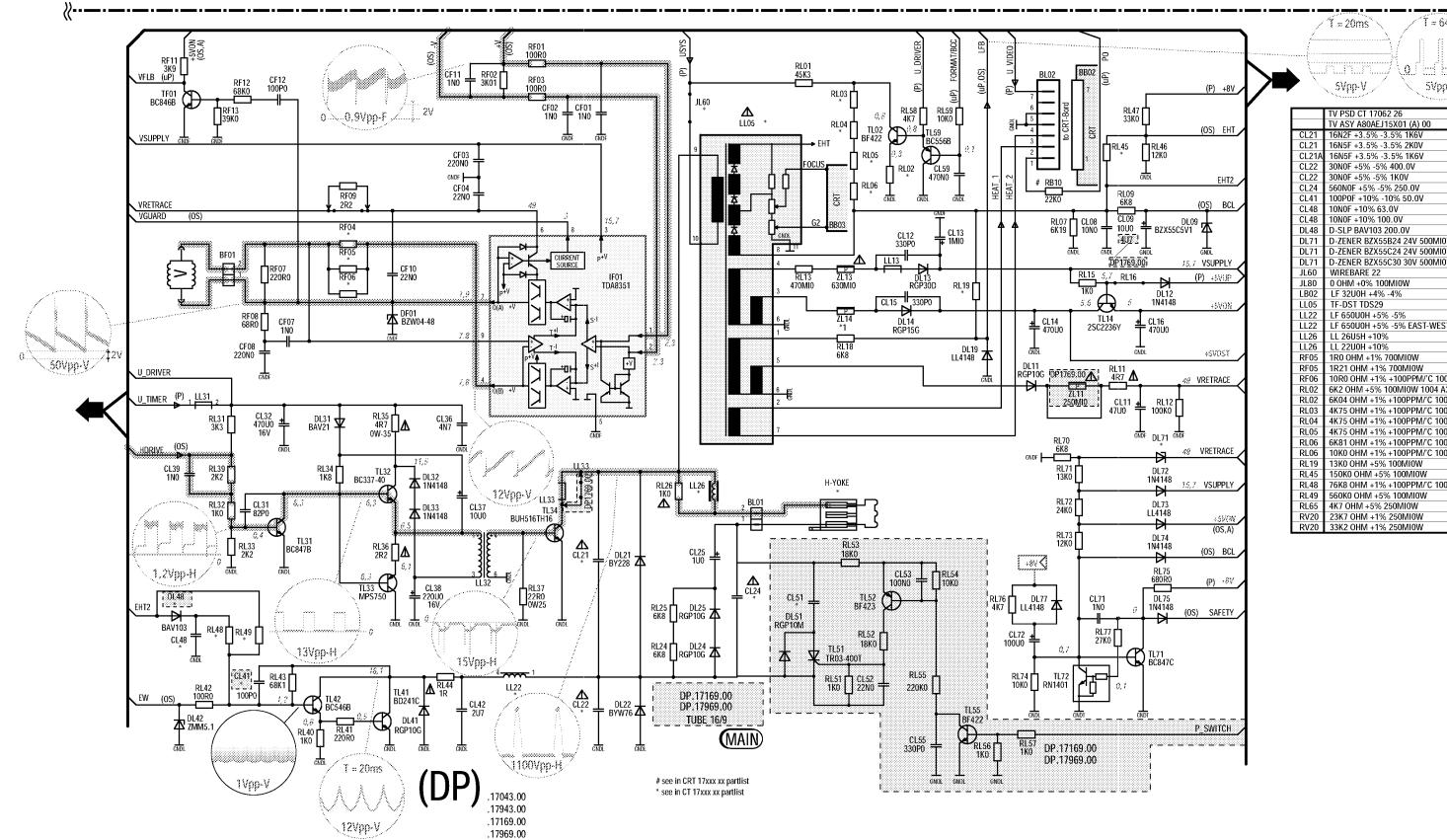




# POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN



**SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE**



**⚠** Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole  ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.  
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol  gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno  $\Delta$ ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

La substitución de elementos de seguridad (marcados con el símbolo  ) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato.

En ese caso, el fabricante cesa de ser responsable.

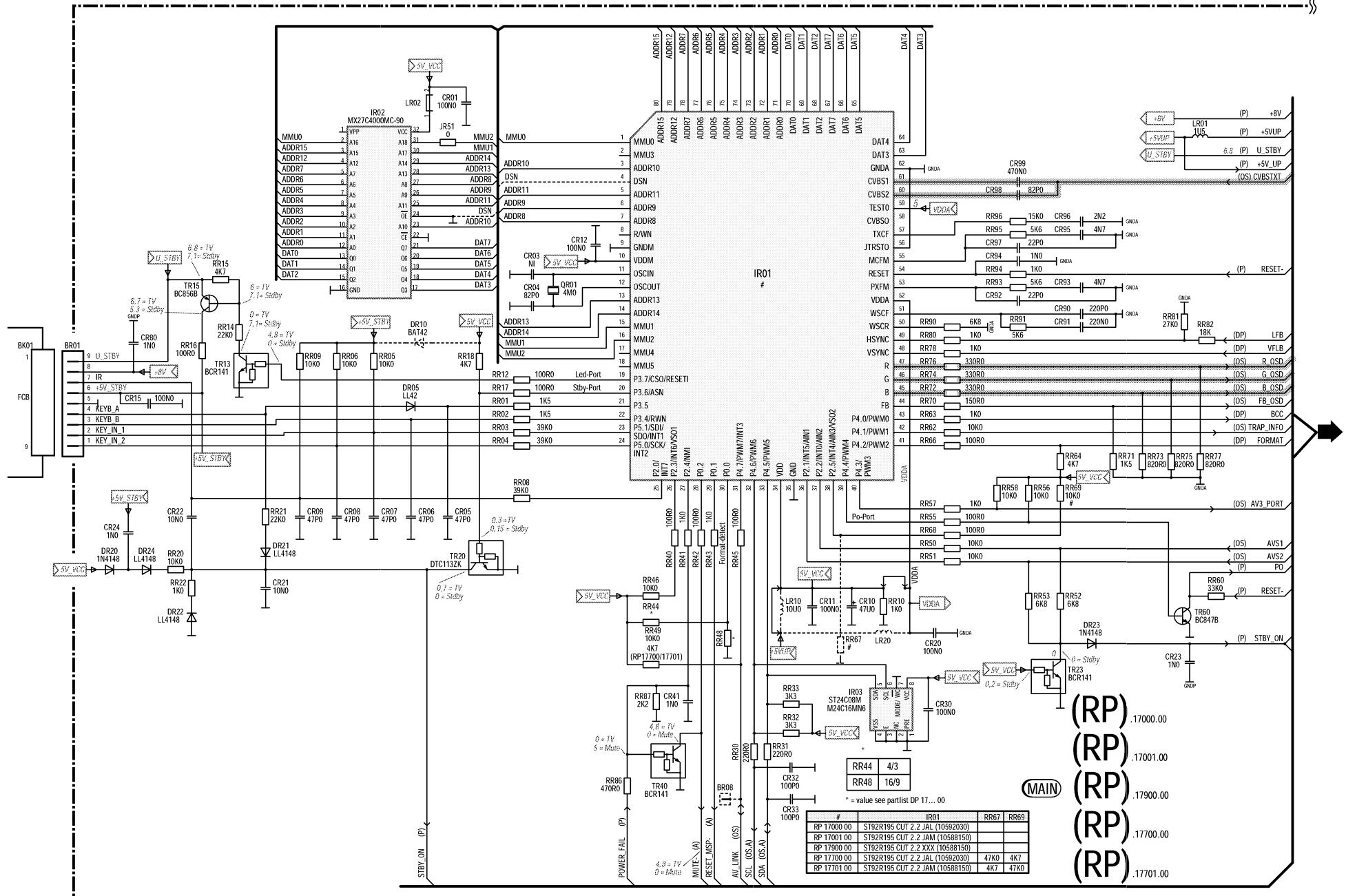
		IV	PSI	CD	17035 26	
		TV	ASV	ASV	FEBSX33/191.03	
CL21	BNF3-3%	-3.5%	3.5%	2K90		
CL21	BNF3-3%	-3.5%	3.5%	1K69		
CL21A	BNF3-3%	-3.5%	3.5%	1K69		
CL22	33N0F	+5%	-5%	400 400V		
CL22	33N0F	+5%	-5%	400 400V		
CL23	10M0F	-10%	-10%	50 50V		
CL24	44N0F	+5%	-5%	400 400V		
CL24	44N0F	+5%	-5%	250 250V		
CL24	44N0F	+5%	-5%	250 250V		
CL24A	44N0F	+5%	-5%	250 250V		
CL24B	44N0F	+5%	-5%	250 250V		
CL4	10M0F	-10%	-10%	50 50V		
CL48	10M0F	+5%	-5%	63 63V		
DL71	D-ZENER	BZ255C 20V	500M 500W			
DL71	D-ZENER	BZ255C 24V	500M 500W			
DL71	D-ZENER	BZ255C 30V	500M 500W			
JL60	WIREBARRIER	22				
JL80	0 OHM	+0%				
JPB1	0 OHM	+0%				
L1	LF356	-10%	-10%	7%		
L102	LF356	-10%	-10%	7%		
LL05	F-DST M03 BC3	10555640	3087			
LL12	LF6500H	+5%	-5%			
LL22	LF6500H	+5%	-5%	EAST-WEST		
LL23	LF6500H	+5%	-5%	50 50V		
LL26	LF6500H	+10%	-10%			
RF04	1R21	+10%	+10%	700M 700W		
RF05	1R21	+10%	+10%	700M 700W		
RF05	1R21	+10%	+10%	700PM/C		
RF02	0K0M	+5%	-5%			
RM02	6K04M	+1%	+100PM/C			
RM03	10K0H	+1%	+100PM/C			
RM03	10K0H	+1%	+100PM/C			
RM04	20K0H	+1%	+100PM/C			
RM05	10K0H	+1%	+100PM/C			
RM06	20K0H	+1%	+100PM/C			
RM06	10K0H	+1%	+100PM/C			
RM07	10K0H	+1%	+100PM/C			
RM07	10K0H	+1%	+100PM/C			
RM11	4R1H	+10%	+250M 100W			
RM11	4R1H	+5%	+250M 100W			
RM19	18K0H	+5%				
RM21	10K0H	+1%	+250M 100W			
RM33	4.58K0H	+1%	+100PM/C			
RM45	82K0H	+5%				
RM45	11K0H	0.5%				
RM45	47K0H	0.5%				
RM45	33K0H	0.5%				
RM47	33K0H	0.5%				
RM48	100K0H	+1%	+100PM/C			
RL49	76K8H	+1%	+100PM/C			
RL49	10K44H	+1%	+100PM/C			
RL49	10K44H	+1%	+100PM/C			
RL65	4.5K0H	+5%	+250M 100W			
RV20	3K10H	+1%	+250M 100W			
RV20	33K2H	+1%	+100PM/C			
RV20	10K0H	+1%	+100PM/C			
TJ13	33K0M/33A	6.5 G				

	TV ASY	4664H1935 01
CL21	CFS 1M4V+	+3.5% -3.5% 1K6V
CL21	CFS 1M4V+	+3.5% -3.5% 1K6V
CL23	CFS 3M0V+	+5% -5% 400V
CL24	CFS 4M0V+	+5% -5% 400V
CL24	CFS 4M0V+	+5% -5% 250V
CL24A	CFS 4M0V+	+5% -5% 250V
L41	CCCMIN 10P0V	-10% +10% 50V
L42	DCB 100V	-10% +10% 100V
L48	SLD B103 100V	200V
DL71	D-ZENER 2Z855B24 2AV	500V/M10W
DL71	D-ZENER 2Z855C24 2AV	500V/M10W
LD67	WIREBARE 2Z	
LL01	TD-DSF M306BC3	106001908 308
LL02	TF 210R1H5	+5%
LL05	TD-DSF M306BC3	106006808 308
LL22	LF 6500H	+5%
LL22	LF 6500H	+5% EAST-WEST
LL26	2B65H/5	
RF05	R0MF 100 OHM +1%	700MV/M
RL02	RCF CMMN 10K OHM +1%	100MV/C
RL30	RCFCMMN 10K OHM +1%	100MV/C
RL43	RCFCMMN 10K OHM +1%	10PPMV/C 100MV
RL50	RCFCMMN 10K OHM +1%	10PPMV/C 100MV
RL66	RCFCMMN 8K25 C1H +1%	10PPMV/C 100MV
RL66	RCFCMMN 4K15 C1H +1%	10PPMV/C 100MV
RL66	RCFCMMN 2K20 C1H +1%	10PPMV/C 100MV
RL74	RCFCMMN 2K20 OHM +5%	100MV
RL45	RCFCMMN 10K OHM +5%	100MV
RL48	RCFCMMN 7K63 OHM +1%	10PPMV/C 100MV
RL65	RD 24K 100V	+5% 250MV

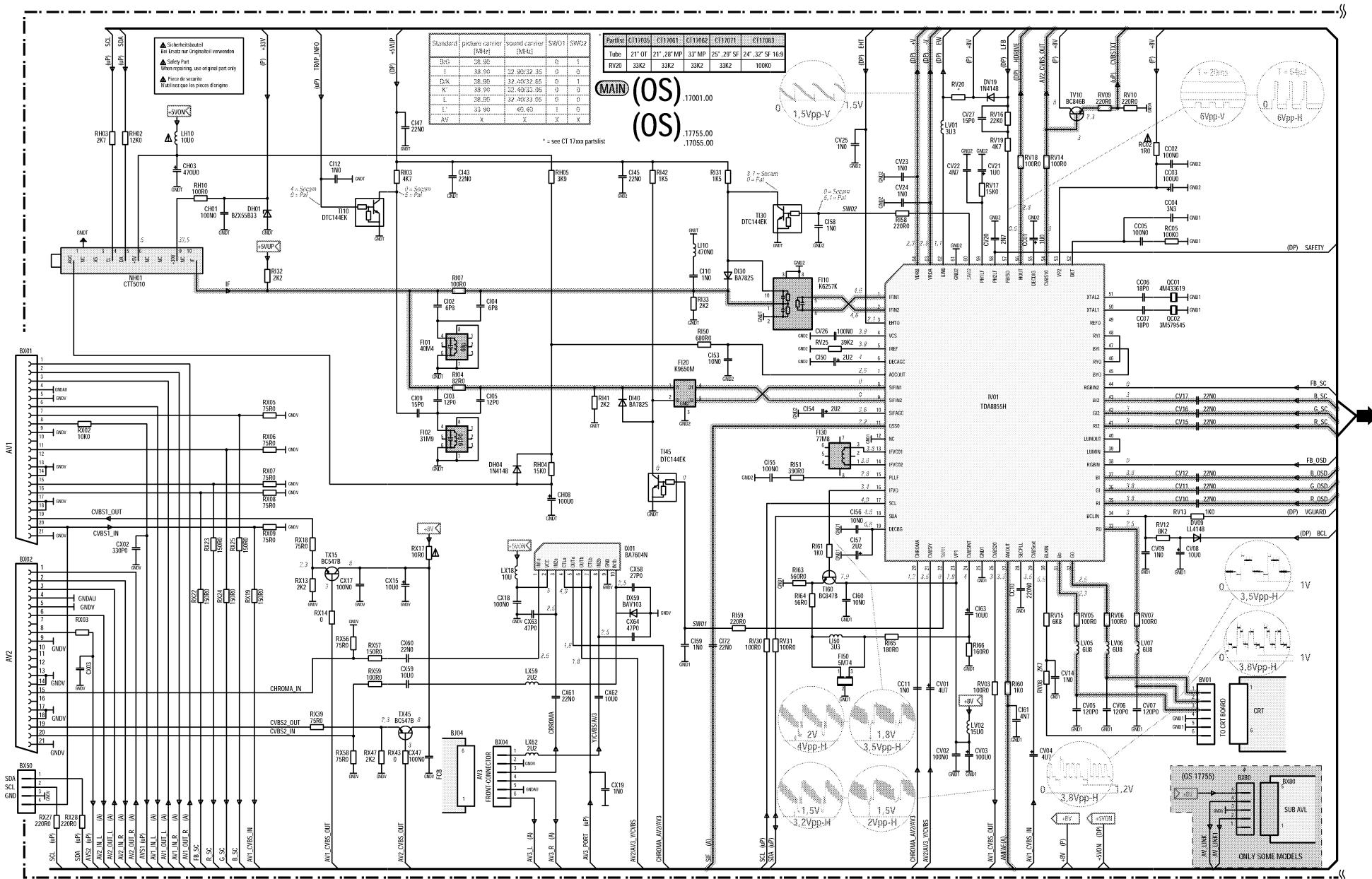
	TV ASY	ASY 60038X/T	(A) 68 00
	PSI	PCP 137 9211	
CL21	16M2F	+ 3.5% , 3.5% 1K6V	
CL21	16M2F	+ 3.5% , 3.5% 2K6V	
CL21A	16M2F	+ 3.5% , 3.5% 1K6V	
CL22	16M2F	+ 3.5% , 3.5% 2K6V	
CL22	S00NF	+ 5% , 5% 1K6V	
CL24	S10NF	+ 5% , 5% 250.0V	
CL24	S10NF	+ 5% , 5% 250.0V	
CL41	16M2F	+ 10% , 10% 50.0V	
CL43	16M2F	+ 10% , 10% 100.0V	
DL48	S-DL8	BAV103S 200.0V	
DL71	D-ZENER	BZ8258Z 24V 500mW	
DL71	D-ZENER	BZ8254Z 24V 500mW	
JL60	JL60	100.0V	
JL90	JL90	+ 4% , - 4% 1000mW	
JL92	JL92	12310H-4%	
JL95	JL95	100.0H	
JL95	JL95	100.0H + 5% , 1000mW	
JL96	JL96	HKT7 0HM + 10% , 1000mW	
JL97	JL97	HKT7 0HM + 10% , 1000mW	
JL98	JL98	HKT7 0HM + 10% , 1000mW	
JL99	JL99	HKT7 0HM + 10% , 1000mW	
BL05	BL05	K75 0HM + 15% , 1000mW	
BL06	BL06	K75 0HM + 15% , 1000mW	
BL07	BL07	K75 0HM + 15% , 1000mW	
BL19	BL19	K050 0HM + 5% , 1000mW	
BL26	BL26	BL26 1201H + 10%	
FR09	FR09	100.0HM + 1% , 1000mW	
RL02	RL02	K98 0HM + 5% , 1000mW	
RL03	RL03	K98 0HM + 5% , 1000mW	
RL04	RL04	K98 0HM + 5% , 1000mW	
RL05	RL05	K75 0HM + 15% , 1000mW	
RL06	RL06	K75 0HM + 15% , 1000mW	
RL19	RL19	K050 0HM + 5% , 1000mW	
RL26	RL26	BL26 1201H + 10%	
RR04	RR04	100K00 0HM + 4% , 1000mW	
RL49	RL49	K000 0HM + 5% , 1000mW	
RL50	RL50	K000 0HM + 5% , 1000mW	
RL65	RL65	K75 0HM + 5% , 2500mW	
RV23	RV23	33K2 0HM 2KA + 15% , 2500mW	

	TV	PLC CT 17962 26
	CL1	100KOHM 1% 250MΩROW
RV20	ZL13	MP63 630MΩ A 65.0V
	CL1	10MΩF 0.3% 10V
CL21	CL21A	10MΩF 0.3% -3.3% 1KV
CL22	CL22A	30MΩF 0.5% -5% 1KV
CL4	CL4A	500MΩF 0.05% -5% 250V
CL5	CL5A	10MΩF 0.3% 10V 50V
CL8	CL8A	10MΩF 0.3% -10% 0.01
DL48	DL48	D-Sub 103 200V
D1	D1-ZENER	BZ55X82A 24V 500mW
D71	D71-ZENER	BZ55C82A 24V 500mW
D72	D72-ZENER	BZ55C82A 24V 500mW
	L1	0.0MΩ 0.0%
L1	L1	320ΩH 4%-4%
L1	L1-TDS	125ΩH 4%
L12	L12	650ΩH 5%-5%
L12	L12	100ΩH 5%-5% EAST-WEST
L26	L26	220ΩH 10%
RF05	RF05	10R OHM +1% 700mW
R102	R102	6KΩ OHM +5%
RL33	RL33	4K75 OHM +1% -100PPM/C
RL34	RL34	4K75 OHM +1% -100PPM/C
RL35	RL35	4K75 OHM +1% -100PPM/C
RL36	RL36	10K0 OHM +1% -100PPM/C
RL19	RL19	1K0 OHM +5%
RL45	RL45	150KΩ OHM +5%
RL46	RL46	100KΩ OHM +1% -100PPM/C
RL47	RL47	550KΩ OHM +5%
RL48	RL48	4K7 OHM +5% 250MW
RV20	RV20	33KΩ OHM +1% 250MW

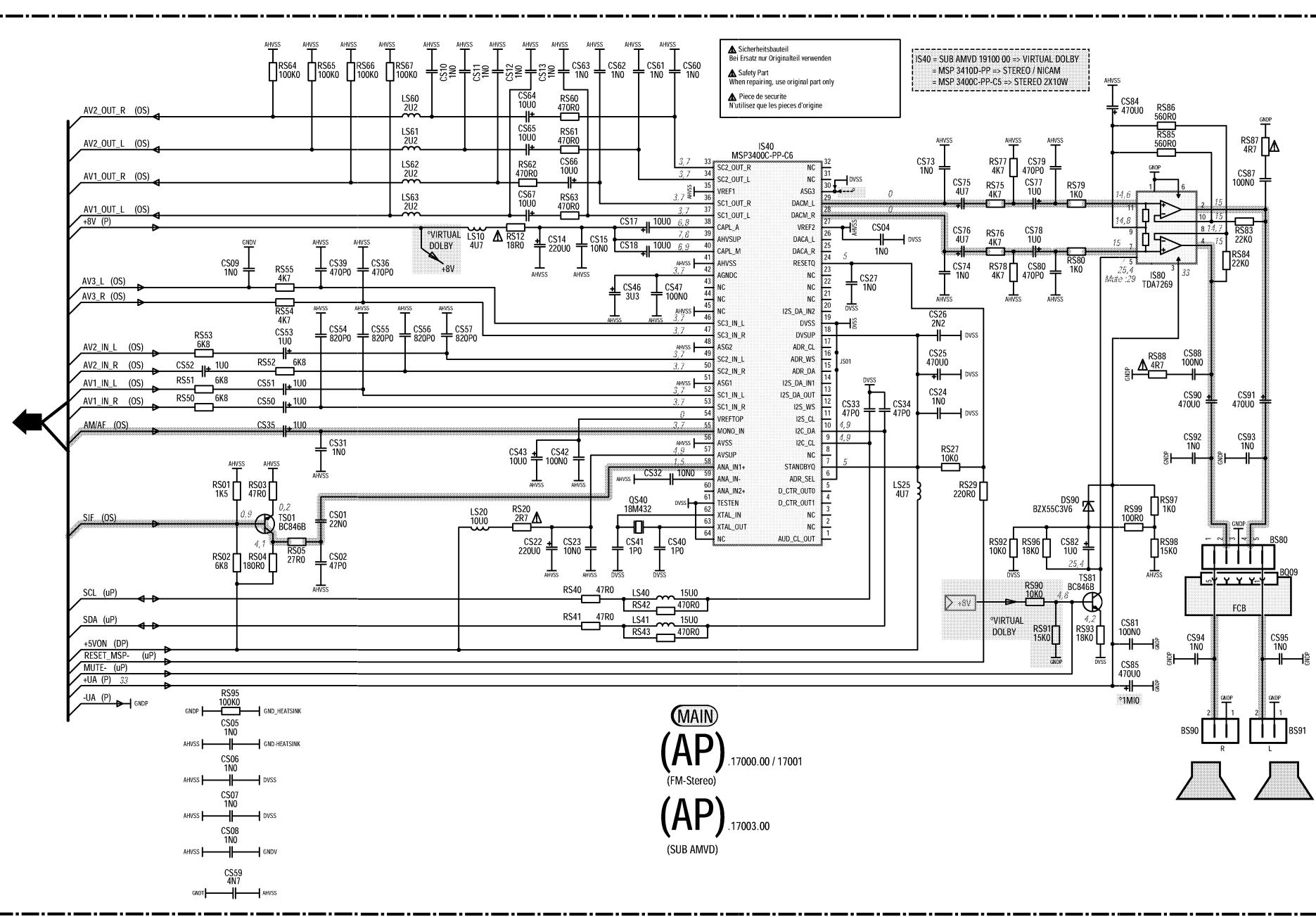
CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



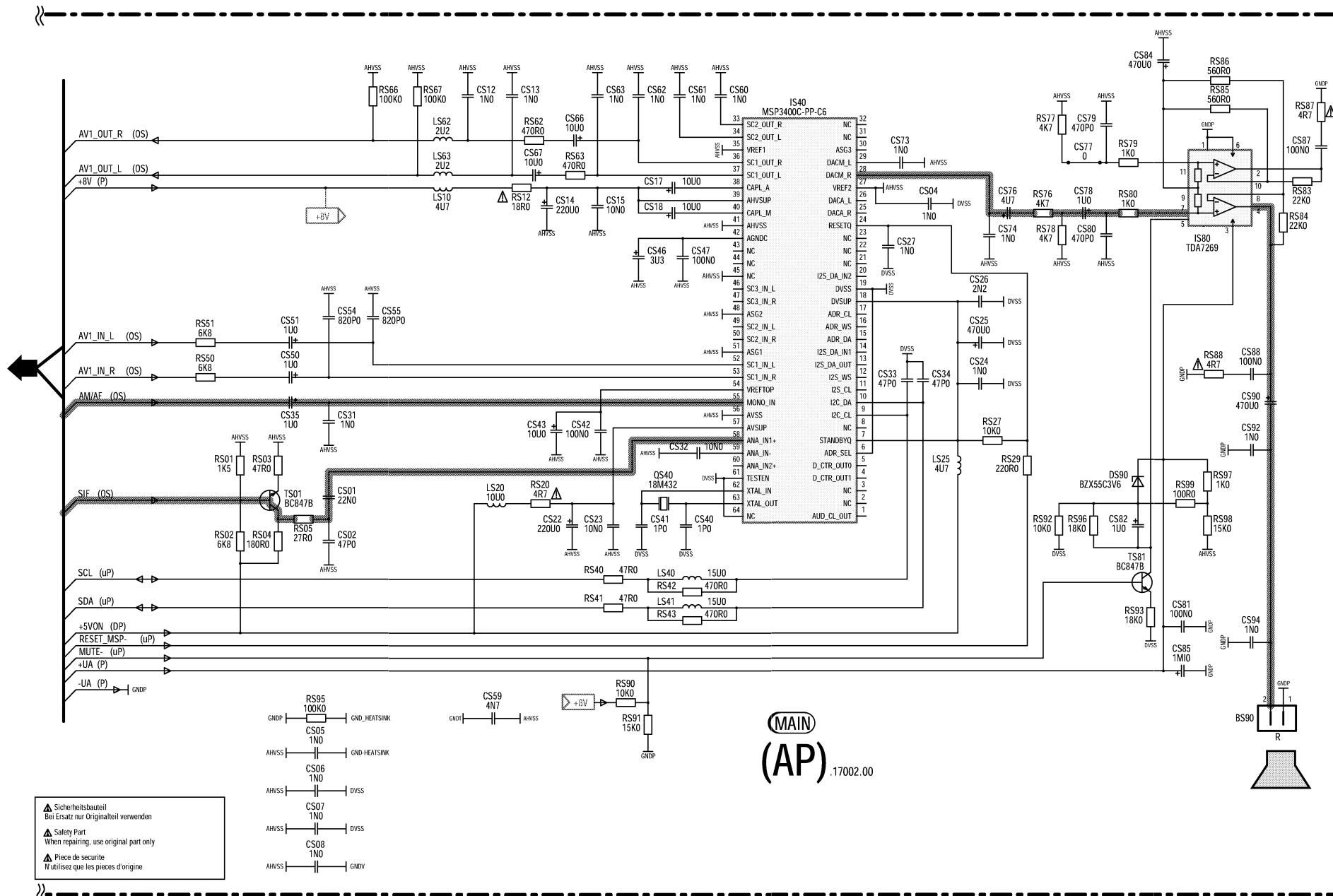
# RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO



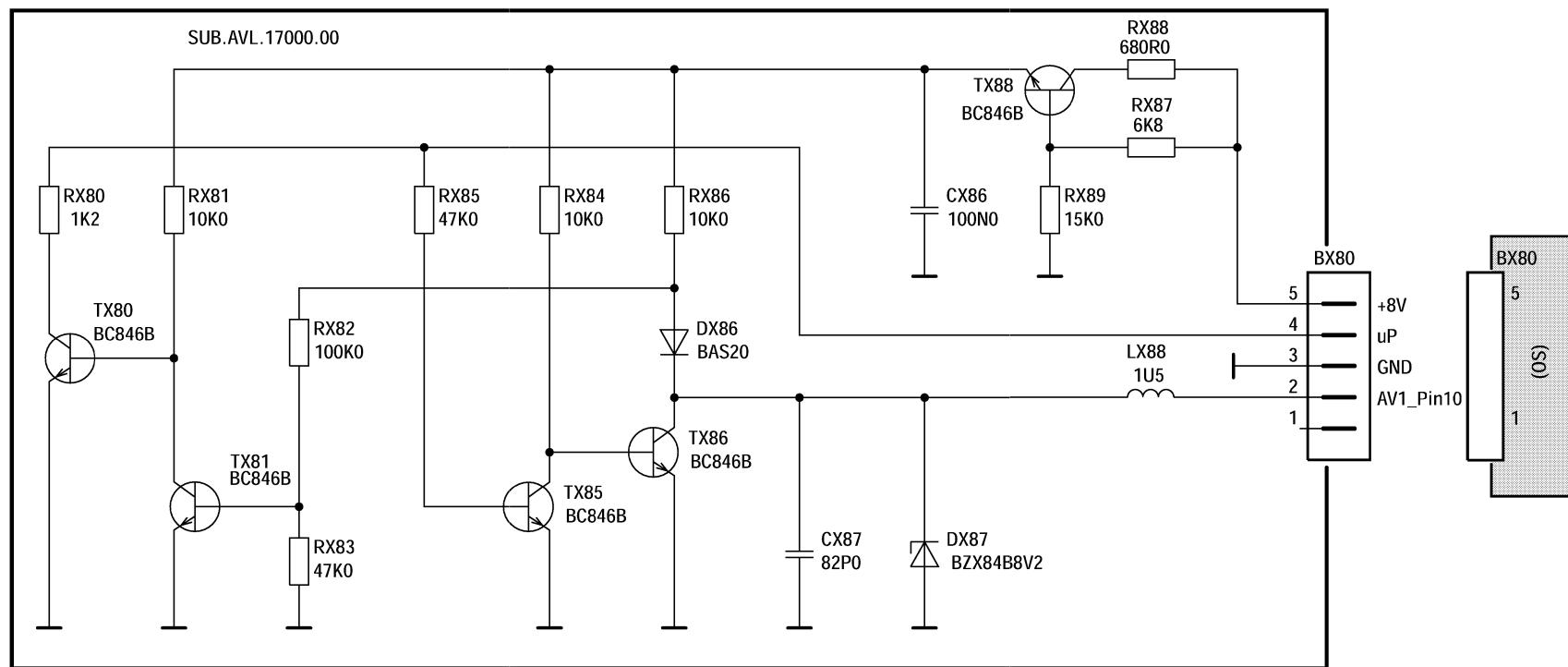
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
 ESQUEMA DEL AMPLIFICADOR (STEREO)



AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE -  
ESQUEMA DEL AMPLIFICADOR  
(MONO)

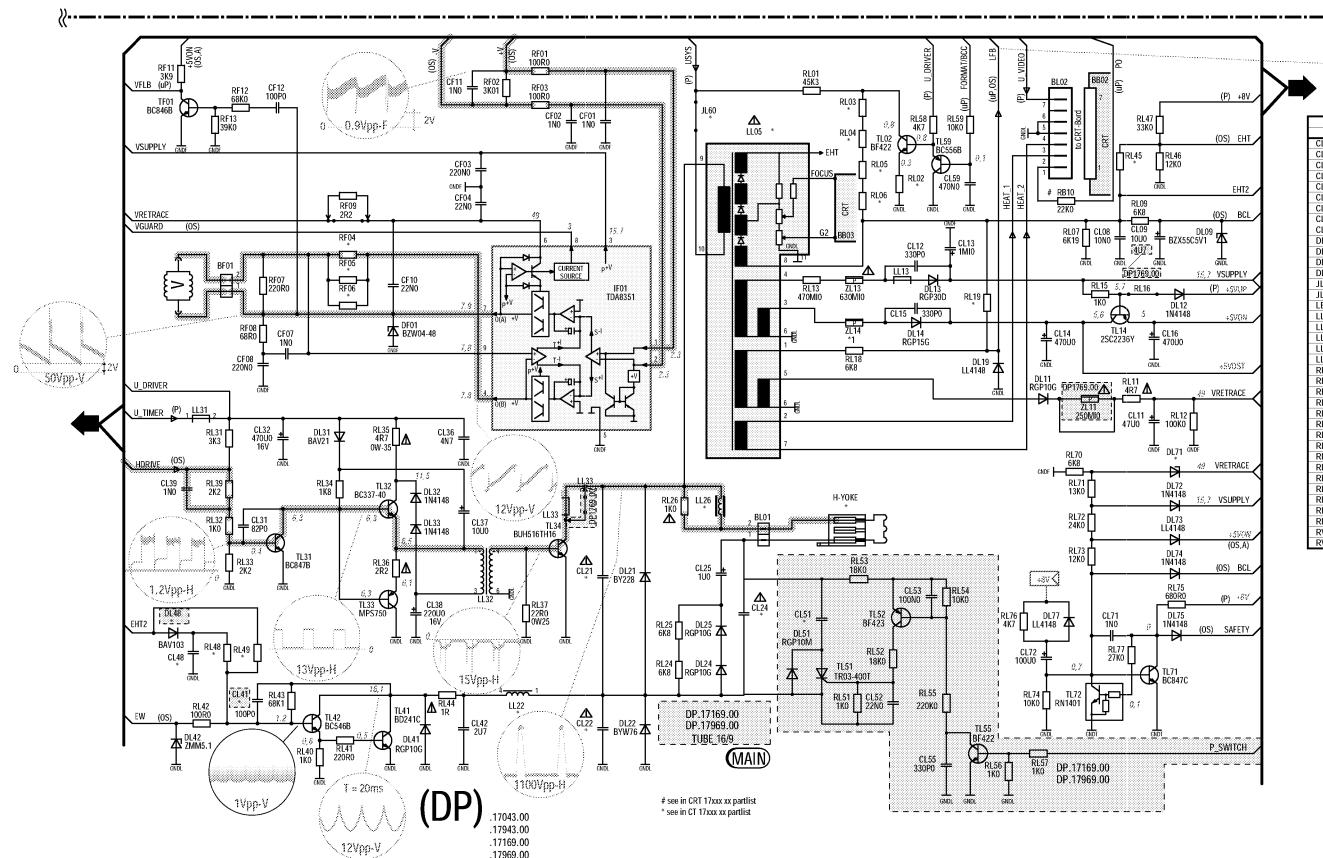


## SUB AVL 17000





SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



**⚠** Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole  ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.  
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol  gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno  $\Delta$ ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

In tal caso è "esclusa la responsabilità" del costruttore.

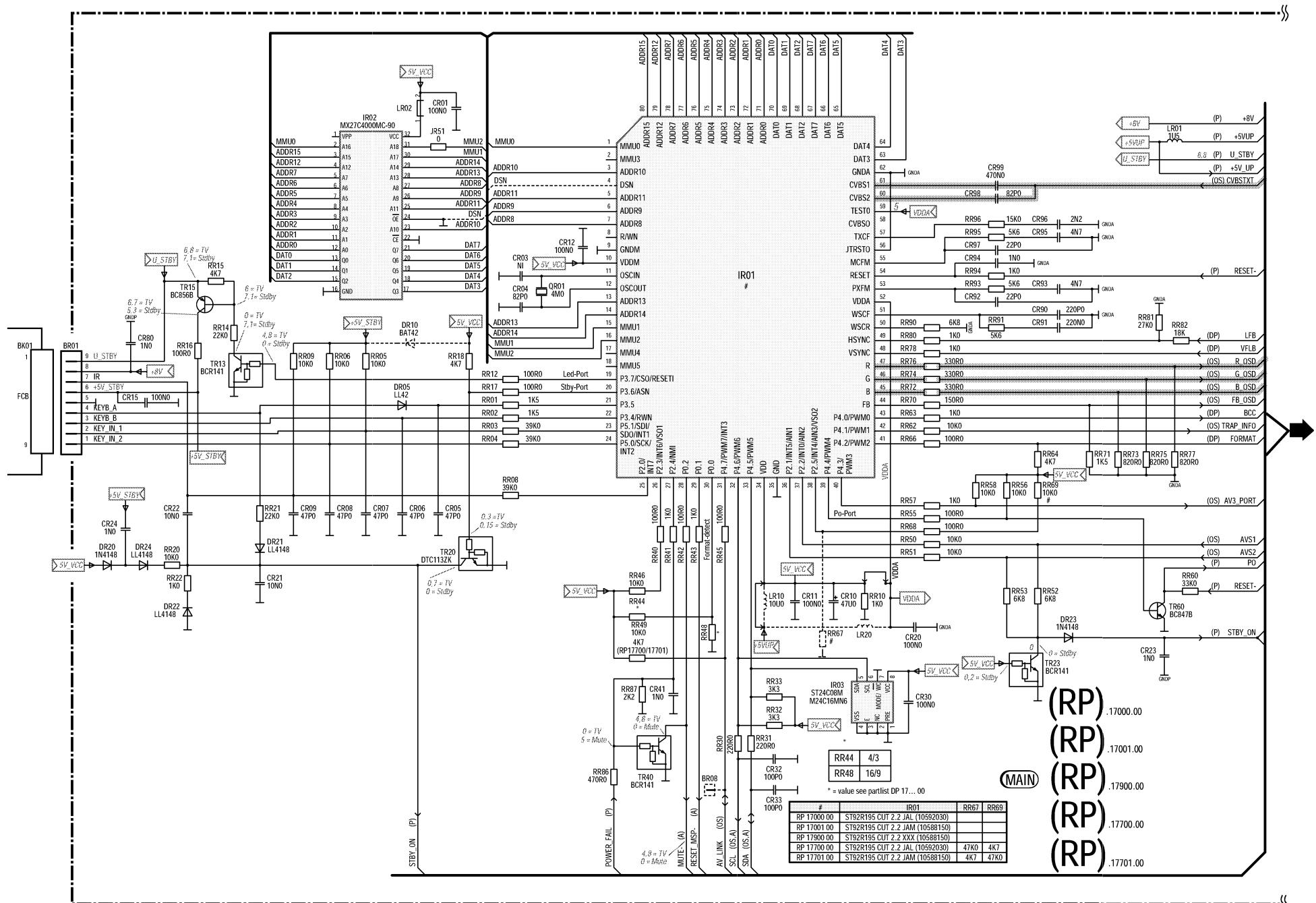
La substitución de elementos de seguridad (marcados con el símbolo  ) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato.

THERMISTOR DATA	
TAKE TIME: 2013-03-19 01:25:50 CT 17058 26	
C1_21	B8NF -3.5% -3.5% 35K 16V
C1_21N	B8NF -3.5% -3.5% 16KV
C1_21A	B8NF -3.5% -3.5% 16KV
C1_22	Z3NNF -5% -5% 400V
C1_22N	Z3NNF -5% -5% 400V
C1_22A	Z3NNF -5% -5% 16KV
C1_24	44N00F +5% 5% 250V
C1_24N	44N00F +5% 5% 250V
C1_24A	44N00F +5% 5% 250V
C1_48	100N00F +5% 63V
D7_71	D-ZENER 8Z5X520 20V 500MW
D7_71N	D-ZENER 8Z5X520 24V 500MW
D7_71A	D-ZENER 8Z5X530 30V 500MW
J1_60	WIREBARRIER
J8_0	OHM +0%
JP8_1	0 OHM +0%
L1_00	100N00F +5% 73V
L1_00Z	LU100N +5% 5%
L1_00R	F-9305 M903C 10555640 3087
L1_22	LF6500H +5% 0.05A
L1_22Z	LF6500H +5% EAST-WEST
L1_26	LU180H 25194H
L1_26L	LU190H +10%
R9_04	R2120 OHM +10% 1000MW
R9_04N	R2120 OHM +10% 1000MW
R9_05	100K OHM +5% 250MW
R9_05N	100K OHM +5% 250MW
R9_06	100K OHM +10% 1000MW/C
R9_06Z	6K2 OHM +5%
R9_07	100K OHM +10% 1000MW/C
R9_08	100K OHM +10% 1000MW/C
R9_09	200K OHM +10% 1000MW/C
R9_09Z	100K OHM +10% 1000MW/C
R9_10	200K OHM +10% 1000MW/C
R9_10Z	100K OHM +10% 1000MW/C
R9_11	487 OHM +10% 2500MW
R9_11Z	100K OHM +5% 250MW
R9_18	18K OHM +5%
R4_43	68K1 OHM +1% 250MW
R4_43N	68K1 OHM +1% 1000PM/C
R4_43A	68K1 OHM +1% 1000PM/C
R4_45	110K OHM +5%
R4_47	470K OHM +5%
R4_48	12K OHM +5%
R4_48N	12K OHM +5%
R4_48A	100K OHM +1% -100PM/C
R4_49	768K OHM +1% -100PM/C
R4_49N	60K4 OHM +1% -100PM/C
R4_49A	60K4 OHM +1% -100PM/C
R6_65	4K1 OHM -5% 250MW
R6_65N	4K1 OHM -5% 250MW
R20_29	3K2 OHM +1% -1000MW
R20_29N	3K2 OHM +1% -1000MW
R20_29A	3K2 OHM +1% -1000MW/C
ZL13	MPS3200W A 65V,

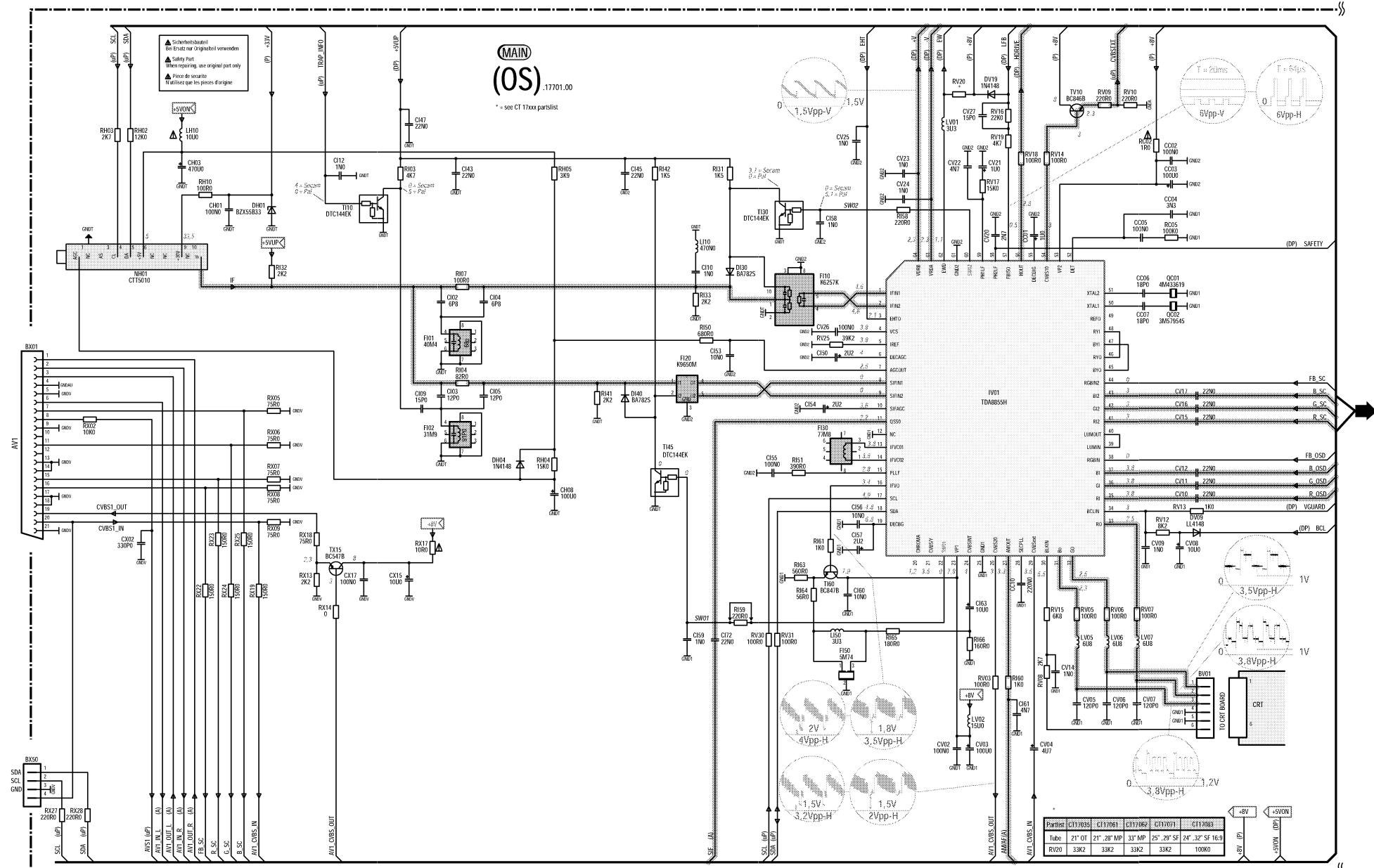
TV ASY	466HDF14XG05	01
<b>TCU</b> TSC-129613-12		
CFS 14AF	+3.5% -3.5% 1K6V	
CFS 14AF	+3.5% -3.5% 1K6V	
CFS 30NF	+5% -5% 400' 40V	
CFS 44NF	+5% -5% 400' 40V	
CFS 44NF	+5% -5% 400' 40V	
CFS 44NF	+5% -5% 250' 20V	
CFS 44NF	+5% -5% 250' 20V	
CCCMIN 100PFR	+10% -10% 50.0V	
CCCMIN 100PFR	+10% -10% 100.0V	
D_SF BAV103 200W		
D_ZENER XBR52842 24V 500MW		
D_ZENER XBR52542 24V 500MW		
WIREBARE 2		
RC 100PF 100PF +0% 100M/W		
TF 12THP -4% -5%		
TF_DST M30F BC3 100000 3087		
TF_DST M30F BC3 1006860 3087		
LF 650W 100W -5%		
LL 265WH -10%		
RMT 180 OHM +100% 7000W		
RCFFCMIN 100 OHM +5% -5% 100M		
RCFFCMIN 100 OHM +1% -100PPM/C 100M		
RCFFCMIN 100 OHM +1% -100PPM/C 100M		
RCFFCMIN 100 OHM +1% -100PPM/C 100M		
RCFFCMIN 4K75 OHM +1% -100PPM/C 100M		
RCFFCMIN 100 OHM +5% -5% 100M		
RCFFCMIN 100 OHM +5% -5% 100M		
RCFFCMIN 768 OHM +1% -100PPM/C 100M		
RCI 24K OHM +5% -2500M		

TV ASR/GCR/30K70 (A) 68 60 TVP/PSI C1 17/19/26	
CL21	16N0F +3.5% -3.5% 1K6V
CL21	16N0F +3.5% -3.5% 2K0V
CL21A	16N0F +3.5% -3.5% 1K6V
CL22	16N0F +5% -5% 100M0W
CL22	30N0F +5% -5% 100M0W
CL24	51N0F +5% -5% 250V0
CL24	51N0F +5% -5% 250V0
LL01	10P0R +10% -10% 50V0
LL01	10P0R +10% -10% 100M0W
LL48	D-SPD-BAT100 200V0
DL71	D-ZENER BX2558B24 24V0 500M0W
DL71	D-ZENER BX255C24 24V0 500M0W
LL6	WIREBARE Z2
LL6	F5050H +5% -5% 100M0W
L102	F32U0H +5% -5%
LL05	FT-DST 5050
LL22	LF650U0H +5% -5%
LL26	F5050H +5% -5% EAST-WEST
LL26	F5050H +5% -5% 100M0W
LL26	L2210H +10%
FRG	180 OHM +1% -10% 70M0W
RL02	K60 OHM +5% -10% 100M0W
RL03	47K5 OHM +1% -10% 100M0W
RL03	47K5 OHM +1% -10% 100M0W
RL05	47K5 OHM +1% -10% 100M0W
RL05	47K5 OHM +1% -10% 100M0W
RL05	47K5 OHM +1% -10% 100M0W
RL19	I5K0H +5% -5% 100M0W
RL19	I5K0H +5% -5% 100M0W
RL19	I5K0H +5% -5% 100M0W
RL49	100K0H OHM +5% 100M0W
RL49	200K0H OHM +5% 100M0W
RL65	4K7 OHM +5% -5% 250M0W
RV32	33K2C H1% +1% 250M0W

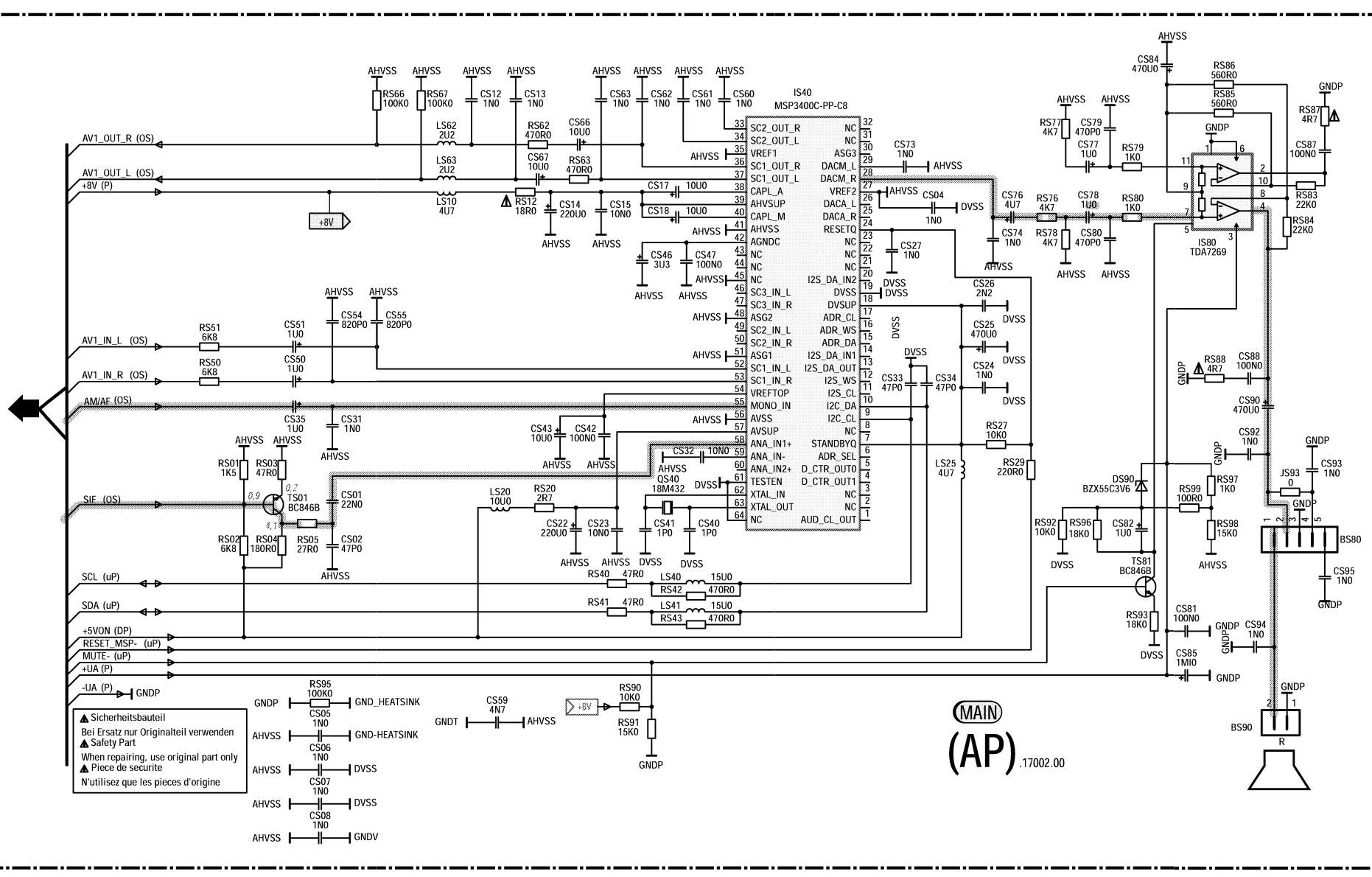
CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



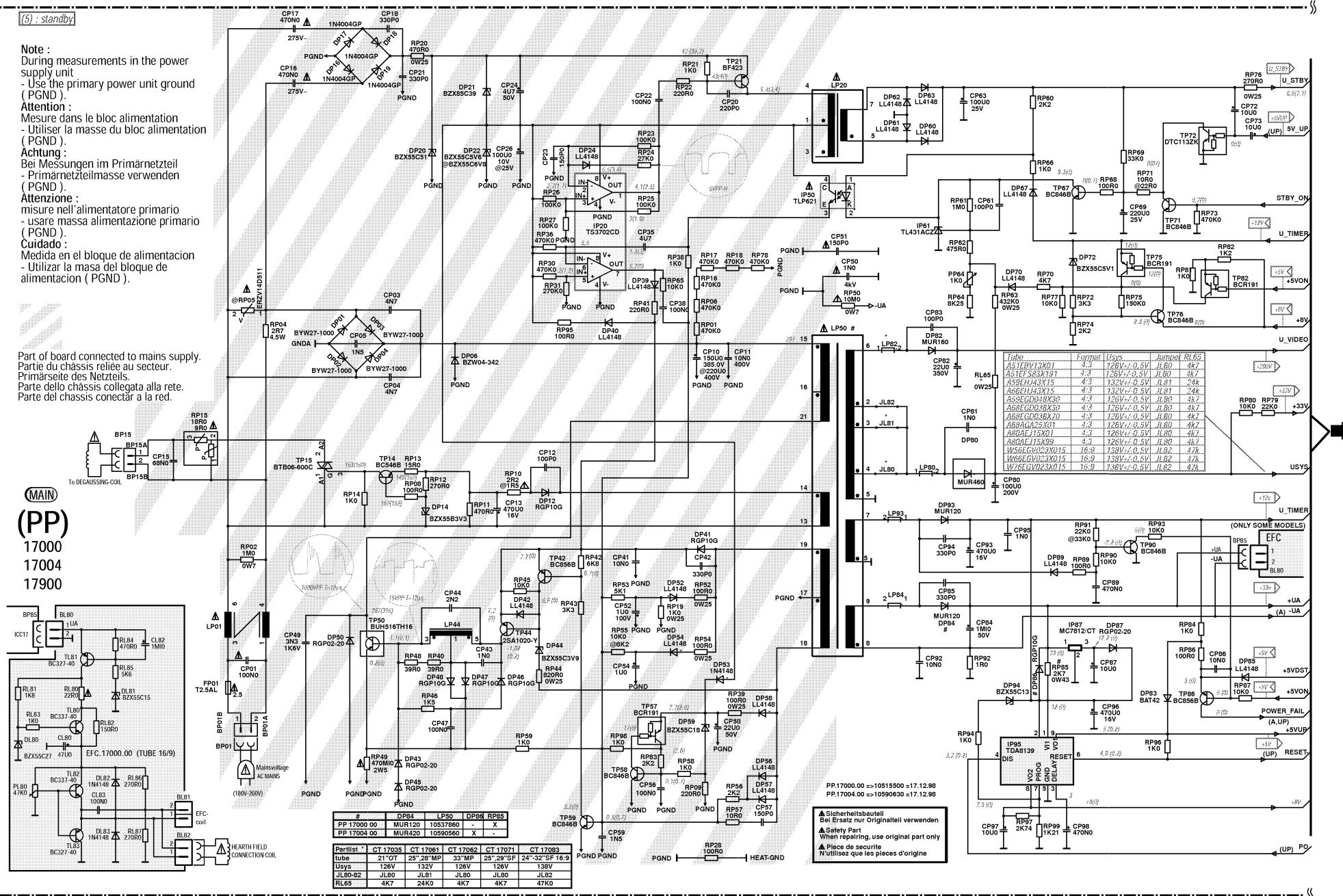
RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR/TRATAMENTO VIDEO



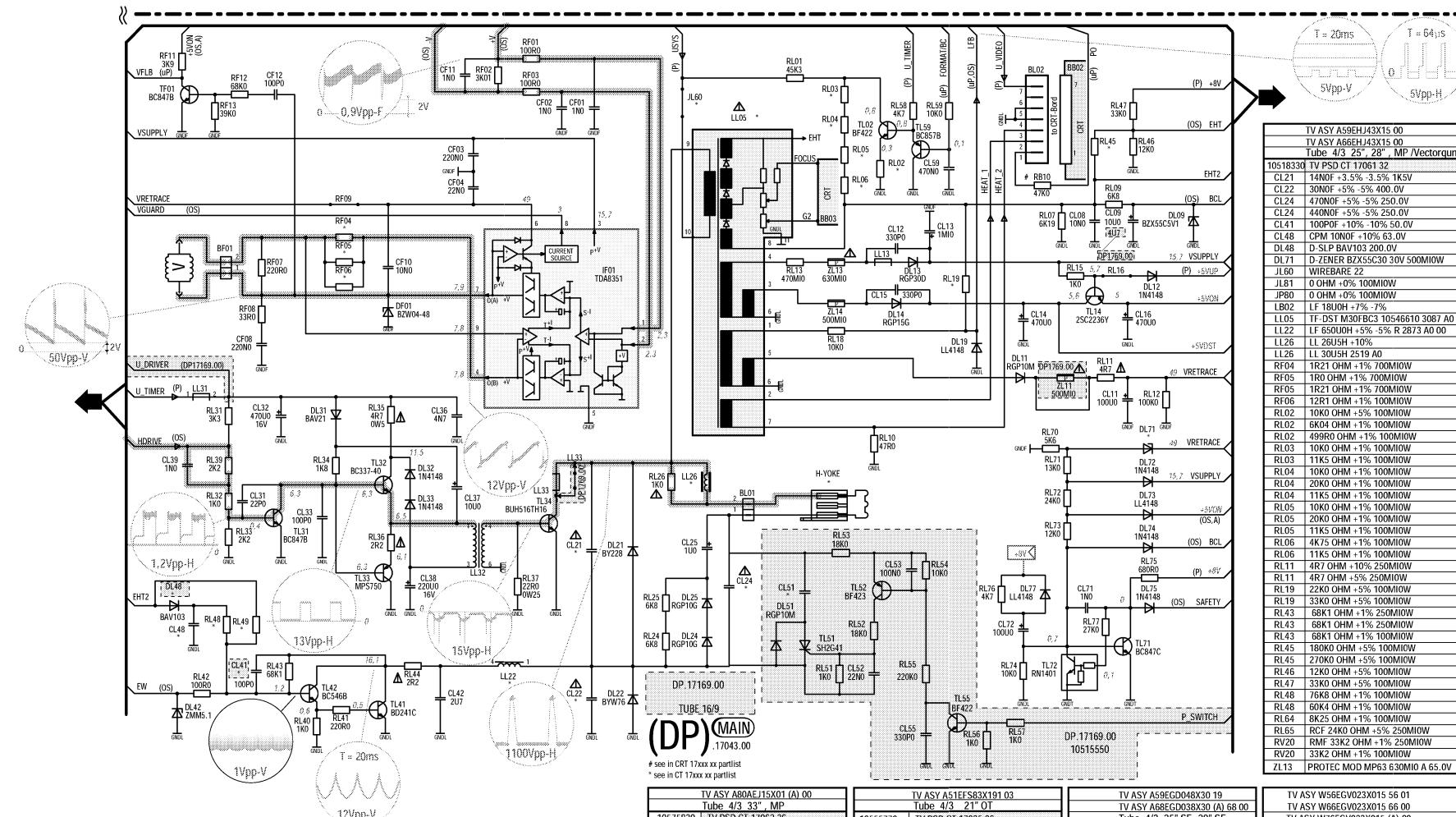
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
ESQUEMA DEL AMPLIFICADOR  
(MONO)



# POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN



**SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE**



 Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole  ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.

Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol  gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno  $\Delta$ ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el simbolo  $\Delta$ ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.

En ese caso, el fabricante cesa de ser responsable.

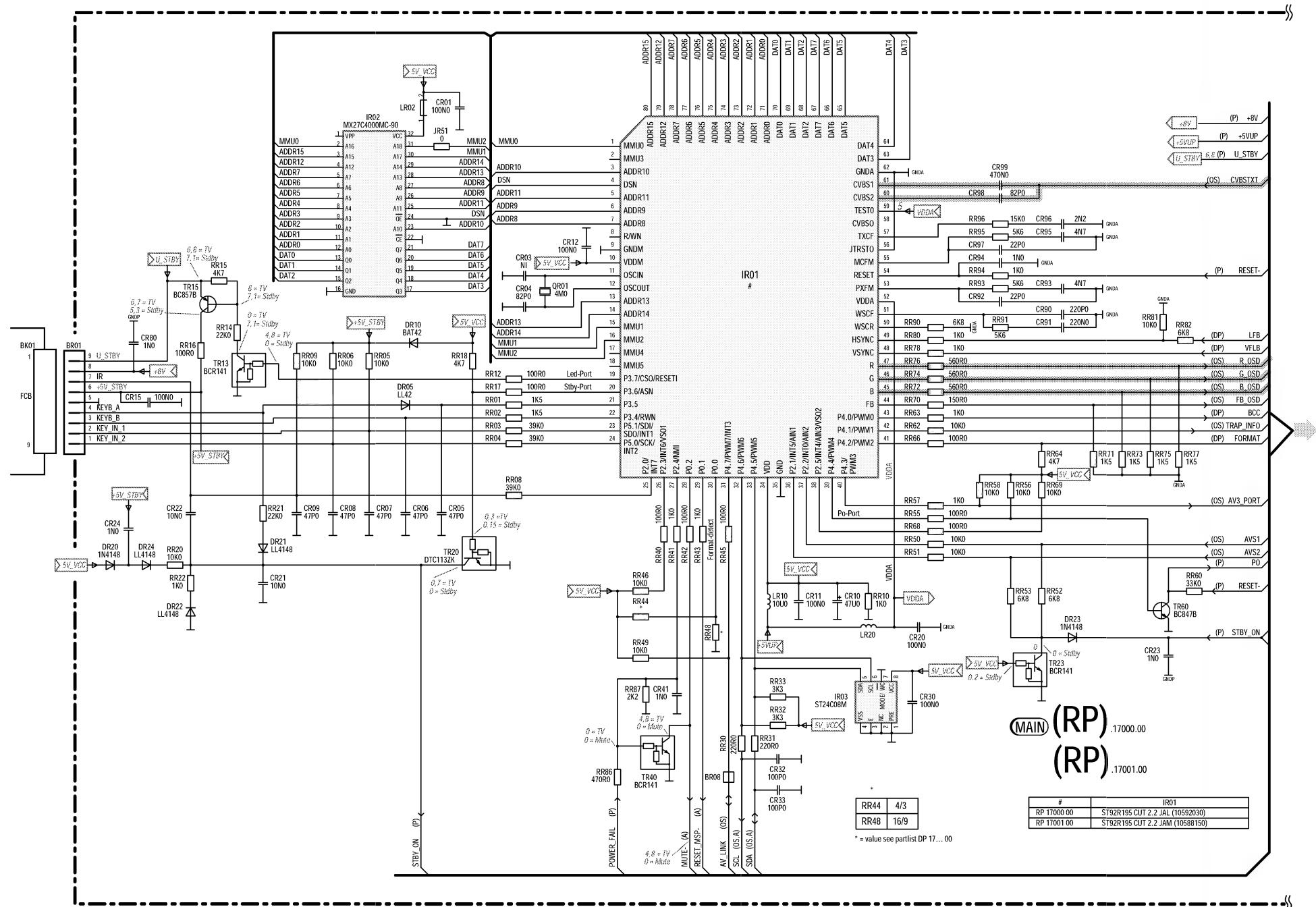
IV. ASY A08AE J15X01(A) 00 T-33", "MP	
10575830	IV PVD C1 17082.26
C1.21	16N2F -3.5% -3.5% 1K6V
C1.22	30N0F -5% -5% 400.0V
C1.24	56N0F +5% -5% 250.0V
C1.41	100P0F +10% -10% 50.0V
C1.48	10N0F -10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-75ENER BXZ55C30 30V 500MI0
JL60	WIREBARE JL
JL80	0 OHM -0% 100M10W
LB02	LJ 32UOH +4% -4%
LL05	TF-STD DDS520 TBD 11
LL22	LJ 650UOH +5% -5% R 2873 A0
LL26	LJ 26U5H +10%
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	6K81 OHM +1% 100MI0W
RL19	13K0 OHM -5% 100MI0W
RI45	150K0 OHM -5% 100MI0W
RI48	76K8 OHM -1% 100MI0W
RI49	560K0 OHM -5% 100MI0W
RI65	RCF 4K7 OHM -5% 250MI0W
RV20	RME 2K3 ZOH +1% -250MI0W

TV ASY AS1EFSB3X191.03	
Tube 4/3 - 27° OT	
105557/10	TV PSD CT 17035 26
CL21	8N3C -3.5% -3.5% 1K6V
CL22	33N0F -5% -5% 1K0V
CL24	440NF +5% -5% 250.0V
CL41	1N0F -10% -10% 50.0V
DL11	D-ZENER BZ25CA24 24V 500MIOH
J1.60	WIREBARE 22
J1.80	0 OHM -0% 100MIOH
LB02	LF TRIOD 1H -7% 7%
L1.05	TF-1ST M303 BC103 1055564 3088
L1.22	LF 650UOH -5% -5% R 2873 A0
L1.26	LF 850UOH 2519 AD
RF05	1R5 OHM +1% 70U0MW
RF06	10R0 OHM +1% 100U0MW
RL02	6K0R OHM +1% 100U0MW
RL03	10K0 OHM +1% 100U0MW
RL04	10K0 OHM +1% 100U0MW
RL05	10K0 OHM +1% 100U0MW
RL06	3K22 OHM +1% 100U0MW
RL45	110K0 OHM -5% 100MIOW
RL49	60KA OHM +1% 100MIOW
RL65	4K7 OHM -5% 250MIOW

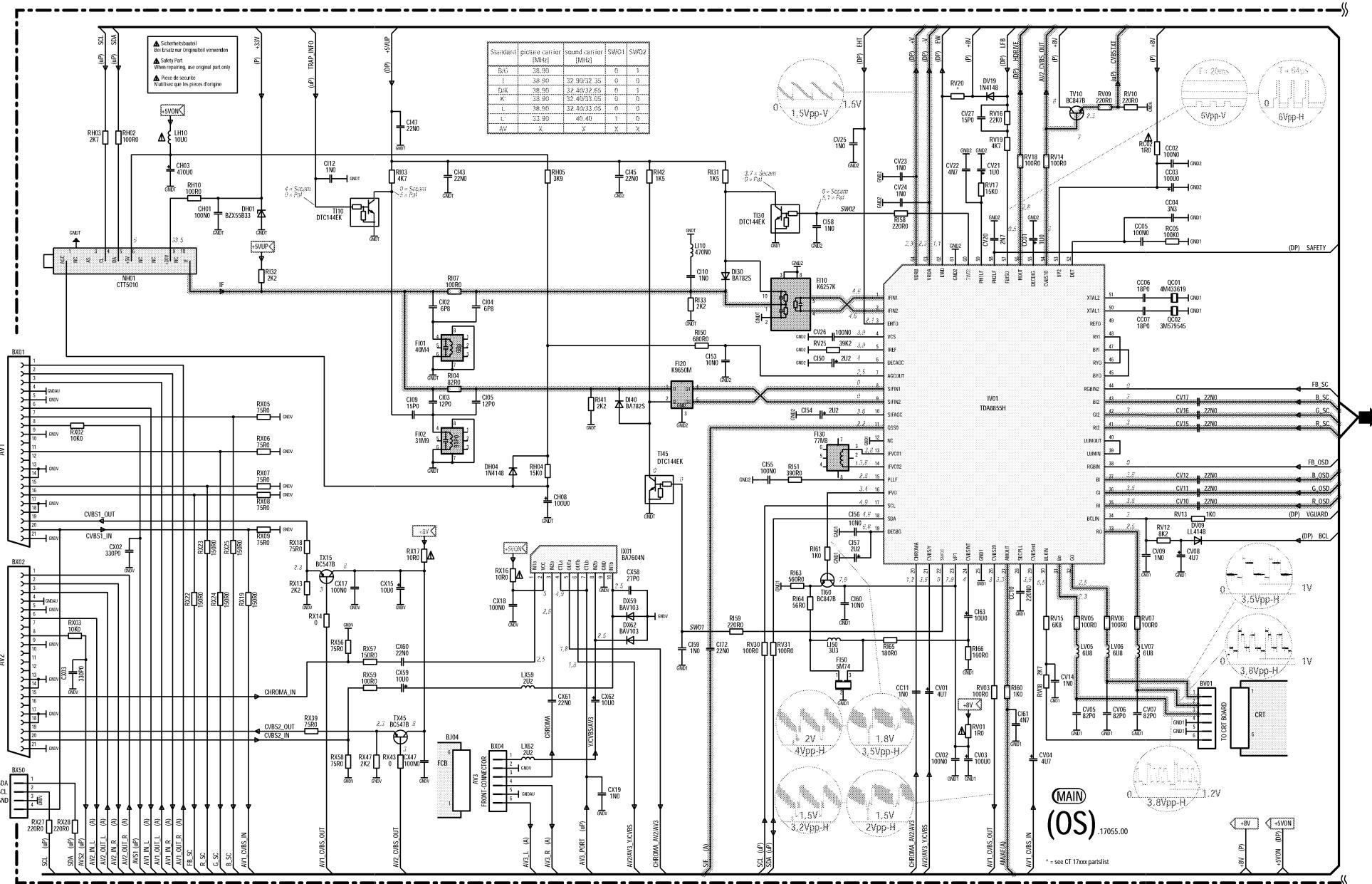
		TV ASY A59EGD048K30 X9.
		IV ASY A86EGC038K30 (A) 68.00
	Tube	4.35" 25° SF " 29° SF
10515520	TV PSD CT	1/071 26
CL21	CL-3.5% -3.5% -1K6V	
CL22	30N0F -5% .5% 400.0V	
CL24	510N0F -5% .5% 250.0V	
CL41	100P0F -10% -10% -50.0V	
CL48	10N0F -10% 63.0V	
DL48	D-SLP BA103 200.0V	
DL71	D-ZENER ZB55C30 30V 500M10W	
DL60	WIREBARRE 2	
JL80	0 OHM -.0% 100M10W	
LB02	LF 32UH0 -.4% 4%	
LL05	TF-DST TD520 BD1 13	
LL22	LF 65UJ0H -.5% -5%	
LL26	LF 26UH5 -.10%	
RF05	RMF 150 OHM -.1% 100M10W	
RL02	6K8 OHM -.5% 100M10W	
RL03	4K75 OHM -.1% 100M10W	
RL04	4K75 OHM -.1% 100M10W	
RL05	4K75 OHM -.1% 100M10W	
RL06	4K75 OHM -.1% 100M10W	
RL19	15K OHM -.5% 100M10W	
RL45	18K0 OHM -.5% 100M10W	
RL48	10K0 OHM -.5% 100M10W	
RL49	300K OHM -.5% 100M10W	
RL65	4K7 OHM -.5% 250M10W	
PV20	33K OHM -.1% 250M10W	

TV ASY W56EGV023X015	56.01
TV ASY W66EGV023X015	66.00
TV ASY W76EGV023X015 (A) 00	
Table 16/9 24°, 28°, 32° SF / vectorquant	
10515530 TV PSD CT 17083 38	
CL21 15N5F -3.5% -3.5% 1K6V	
CL22 27N0F -5% -5% 400V	
CL24 44N0F -5% -5% 250V	
CL41 100P0I +10% -10% 50.0V	
CL48 100N0I +5% 63.0V	
CL51 29N0F -5% -5% 250.0V	
DL48 D-SLP BAV103 200.0V	
DL71 D-ZENER BXZ5C524 24V 500MIOW	
JL60 WIREBARE 22	
JU82 0 OHM -0% 100MIOW	
LB02 IJ 321OHN -4% 4%	
L105 TF-DST DTS29 15311460 10	
L122 LJ 650UOH -5% -5%	
L126 LJ 30U5H 2519 AD	
RF05 1R21 OHM -1% 100MIOW	
RL02 K499 OHM -1% 100MIOW	
RL03 6K49 OHM -1% 100MIOW	
RL04 K499 OHM -1% 100MIOW	
RL05 6K49 OHM -1% 100MIOW	
RL06 K237 OHM -1% 100MIOW	
RL19 13K0 OHM -5% 100MIOW	
RL45 390KO OHM -5% 100MIOW	
RL48 22K0 OHM -5% 100MIOW	
RL49 18K0 OHM -5% 100MIOW	
RL65 47K0 OHM -5% 250MIOW	
RV20 100KO OHM -1% 250MIOW	

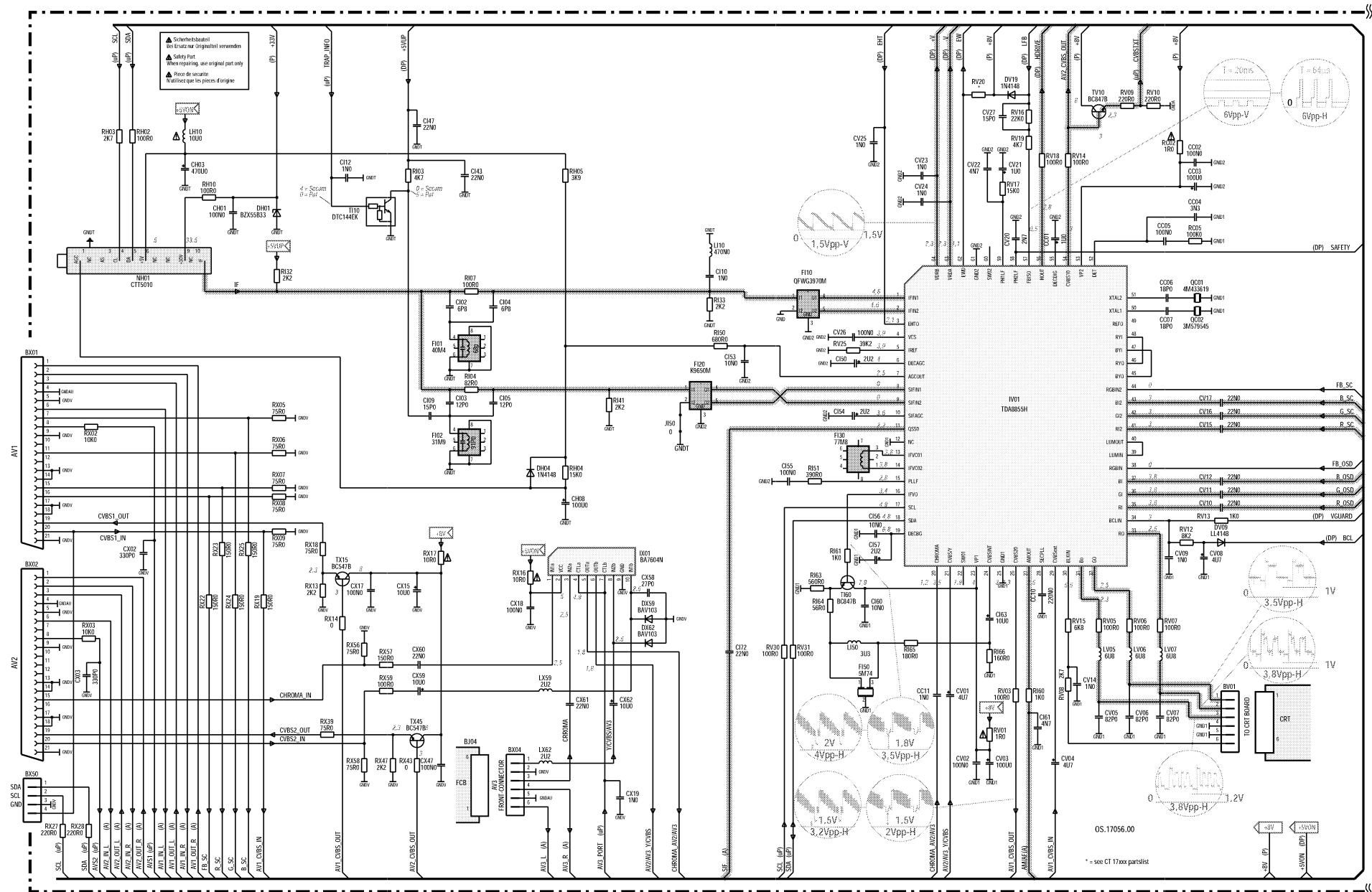
## **CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS**



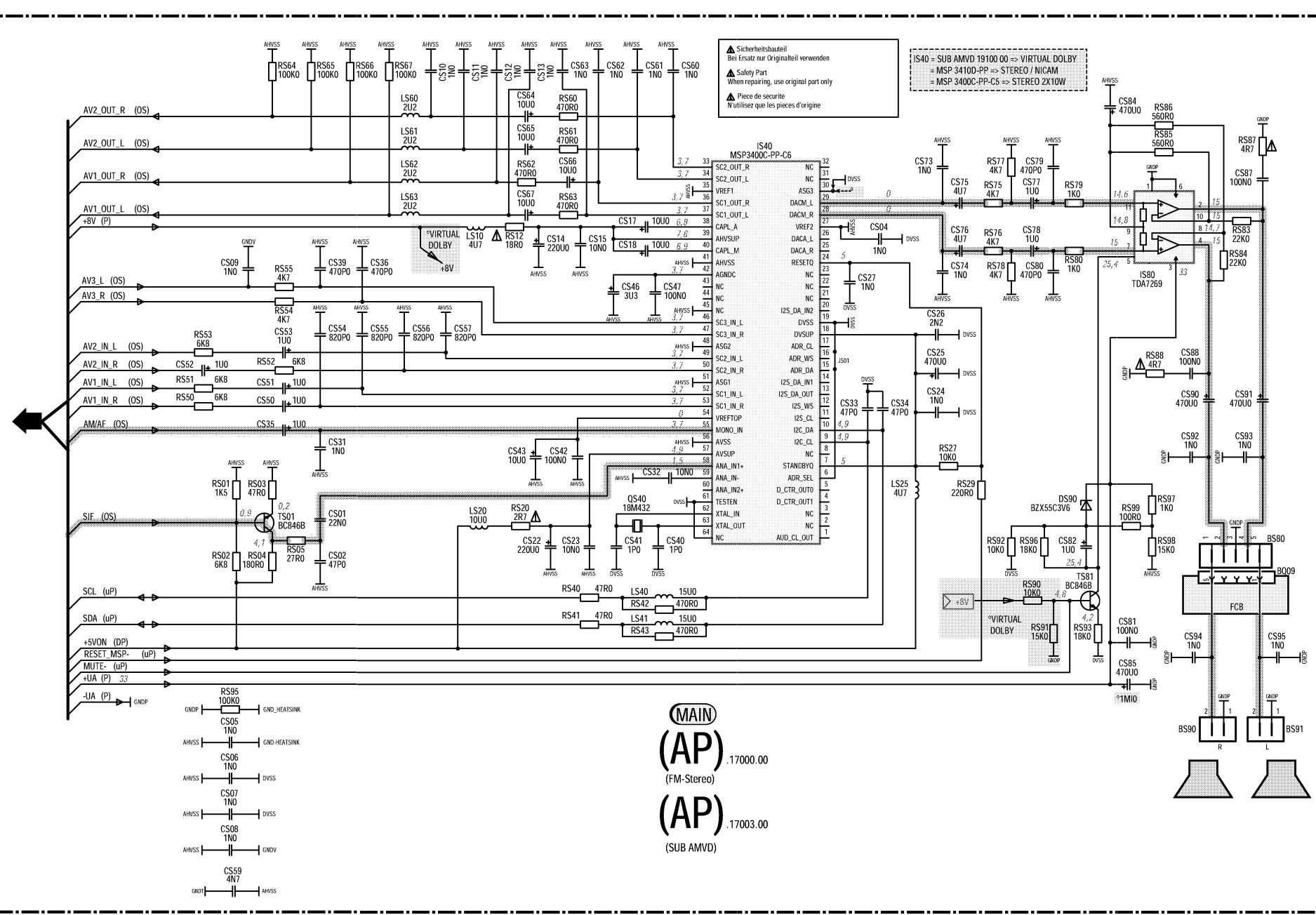
**RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO**



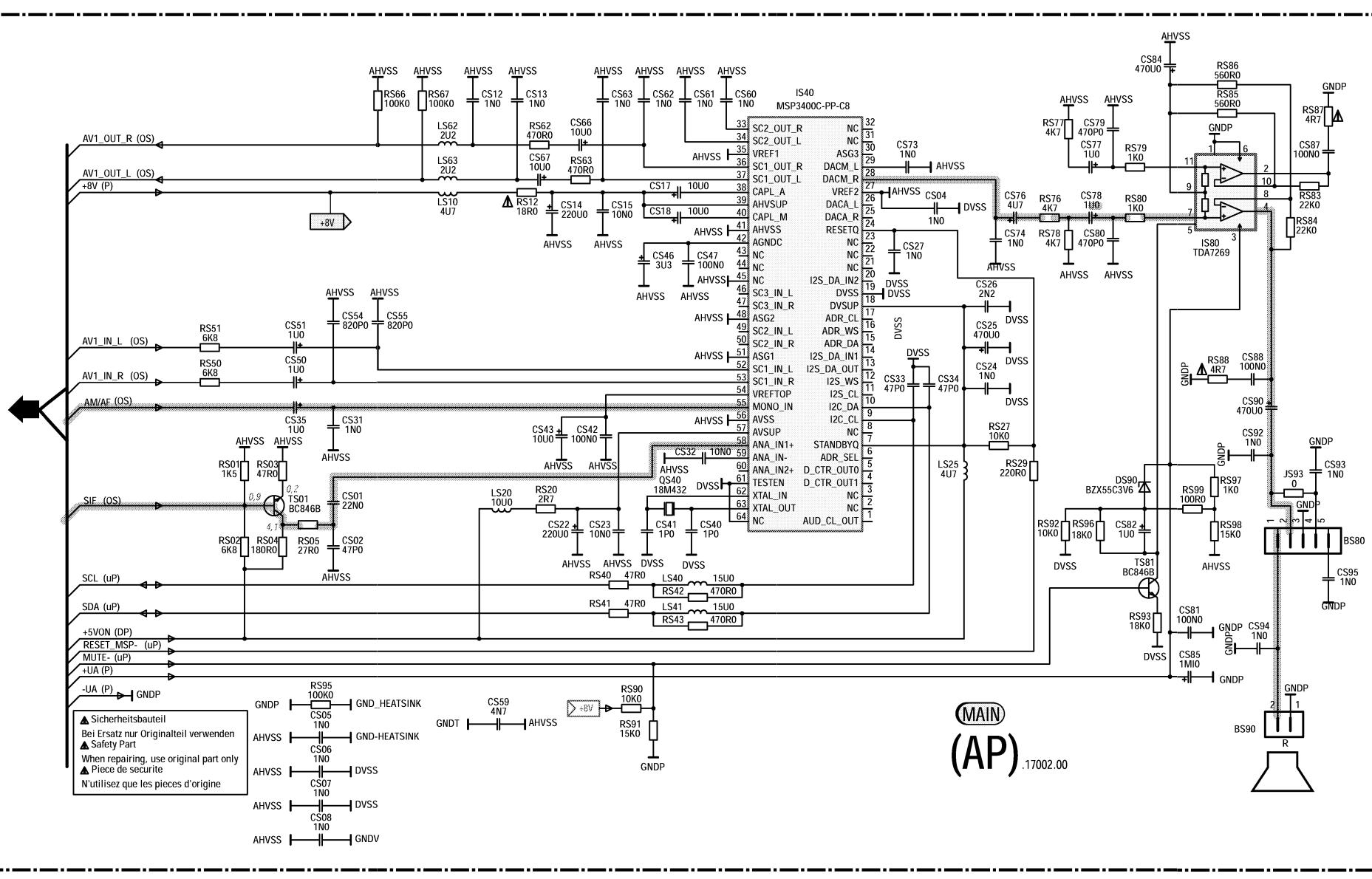
## RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
 ESQUEMA DEL AMPLIFICADOR (STEREO)



# AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE ESQUEMA DEL AMPLIFICADOR (MONO)



**POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN**

(5) : standb

**Note :**  
During measurements in the power supply unit  
- Use the primary power unit ground

( PGND ).  
**Attention :**  
Mesure dans le bloc alimentation  
- Utiliser la masse du bloc alimentation  
( PGND ).

**Achtung :**  
Bei Messungen im Primärnetzteil  
- Primärnetzteilmasse verwenden  
( PGND )

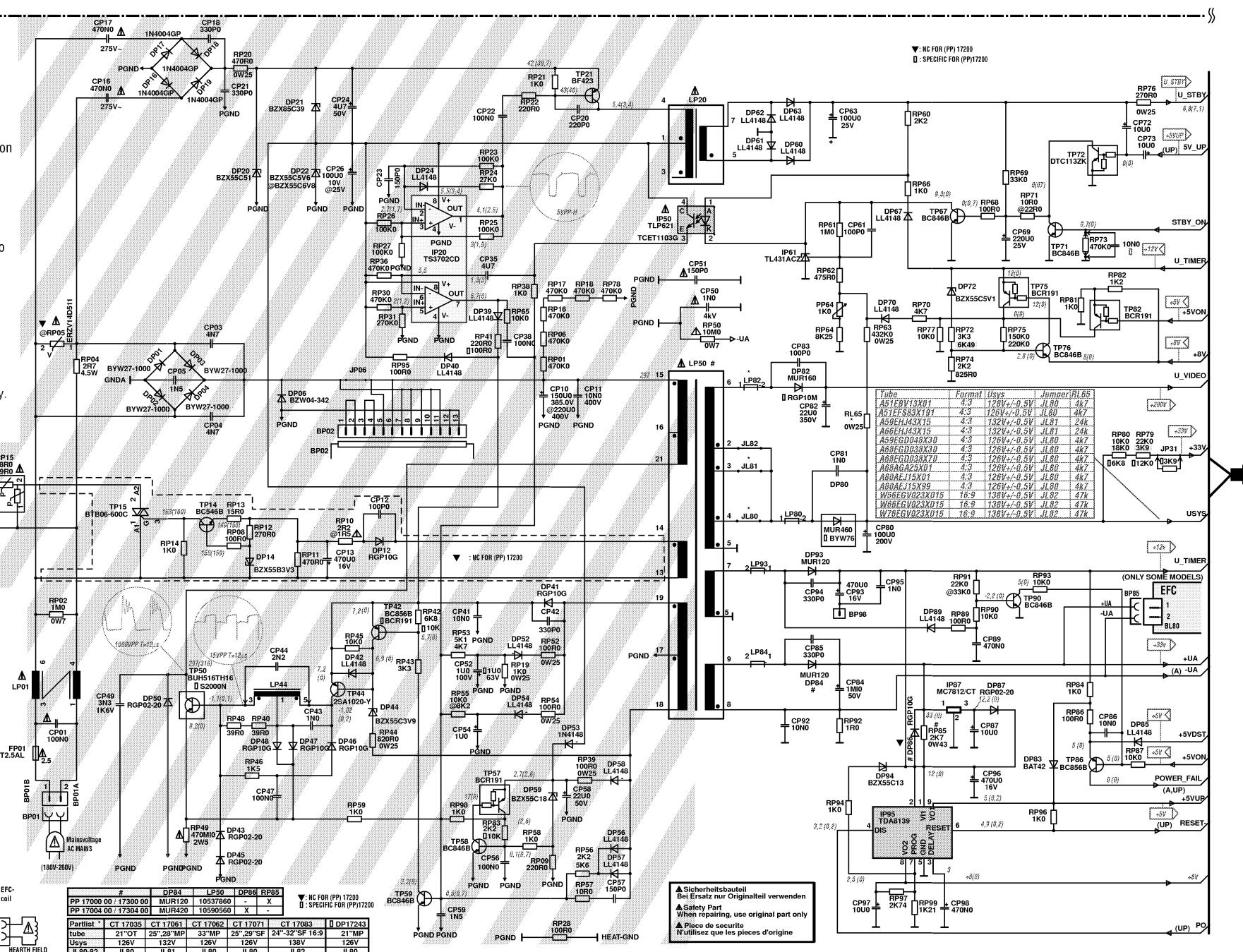
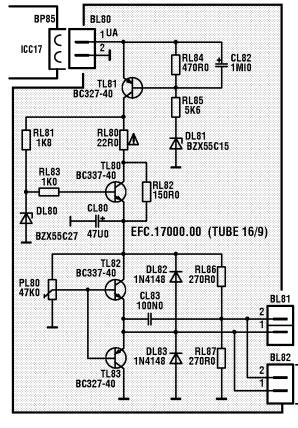
**Attenzione :**  
misure nell'alimentatore primario  
- usare massa alimentazione primario  
( PGND )

**Cuidado:**  
Medida en el bloque de alimentacion  
- Utilizar la masa del bloque de  
alimentacion ( PGND ).

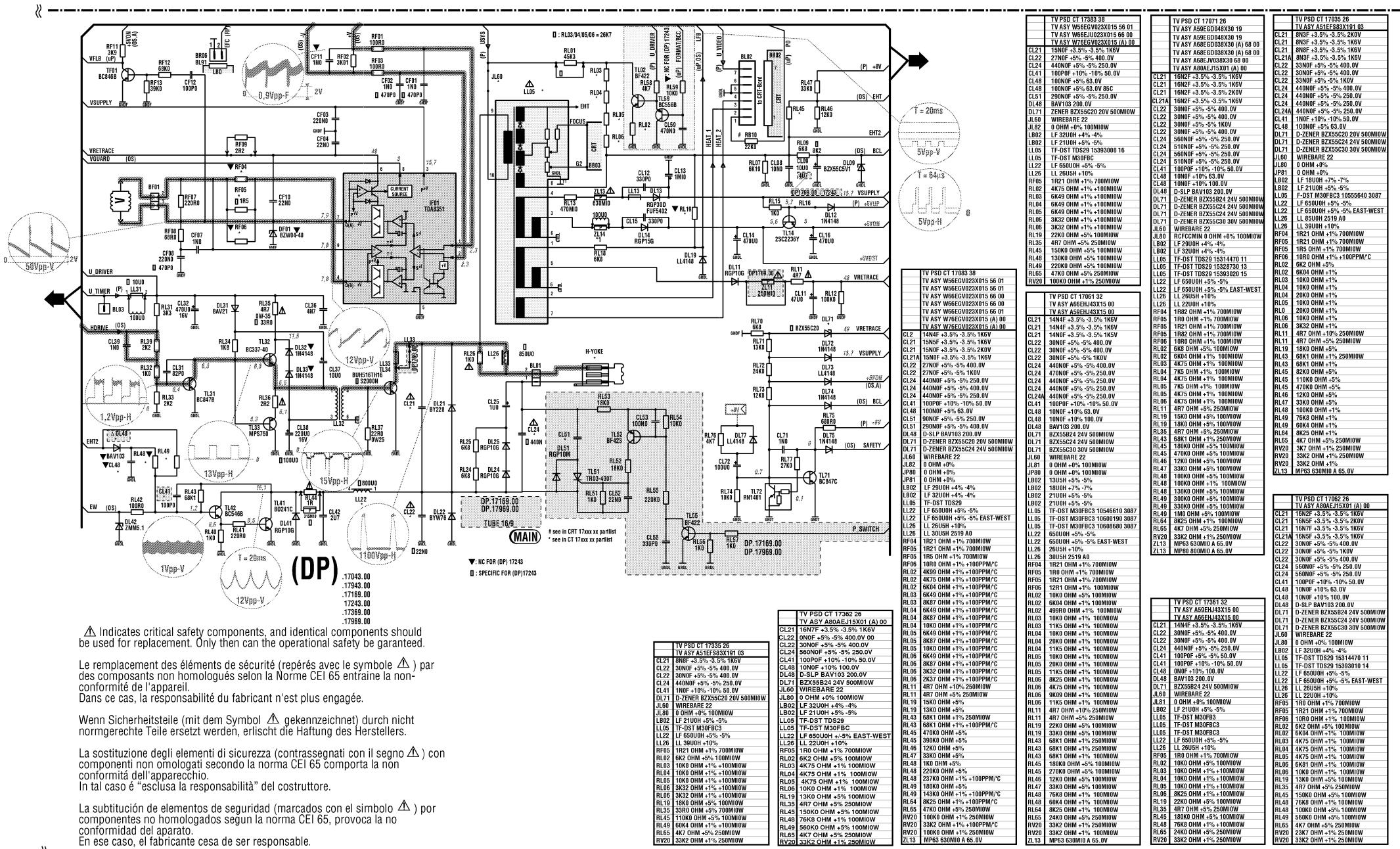
Part of board connected to mains supply  
Partie du châssis reliée au secteur.  
Primärseite des Netzteils.  
Parte dello châssis collegata alla rete.  
Parte del chassis conectar a la red.

MAIN  
(PP)

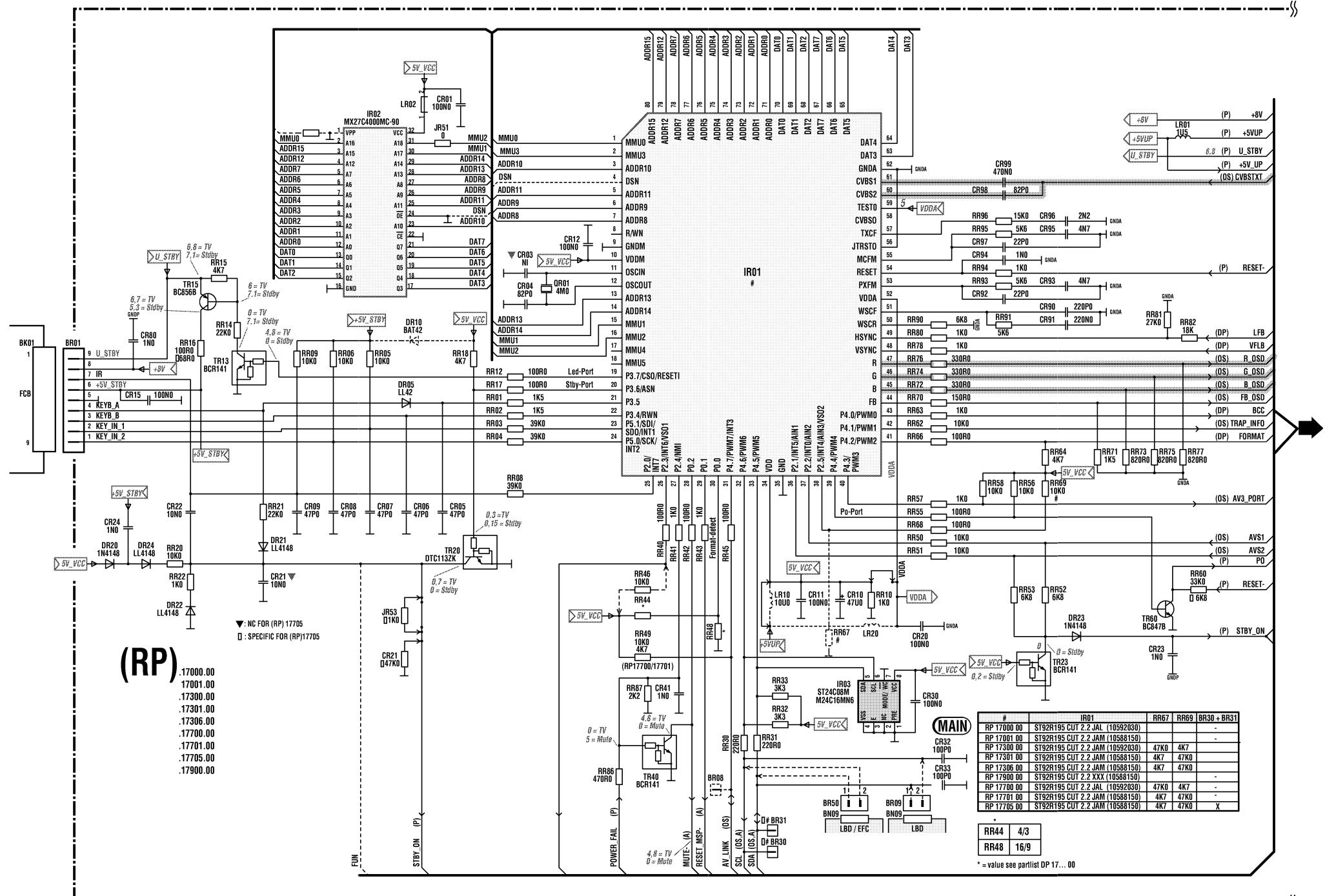
17000  
17004  
17200  
17300  
17304  
17900



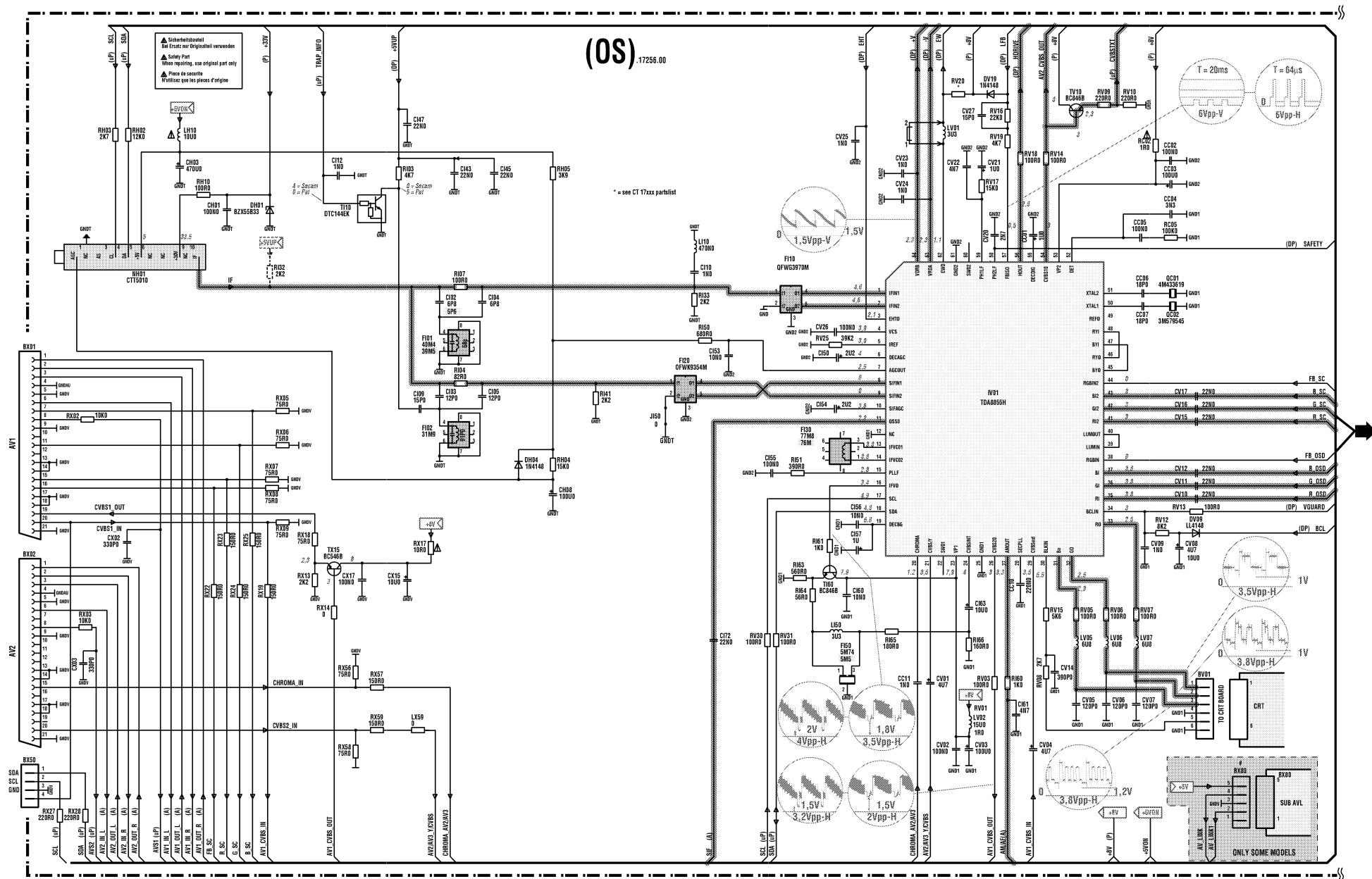
# SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



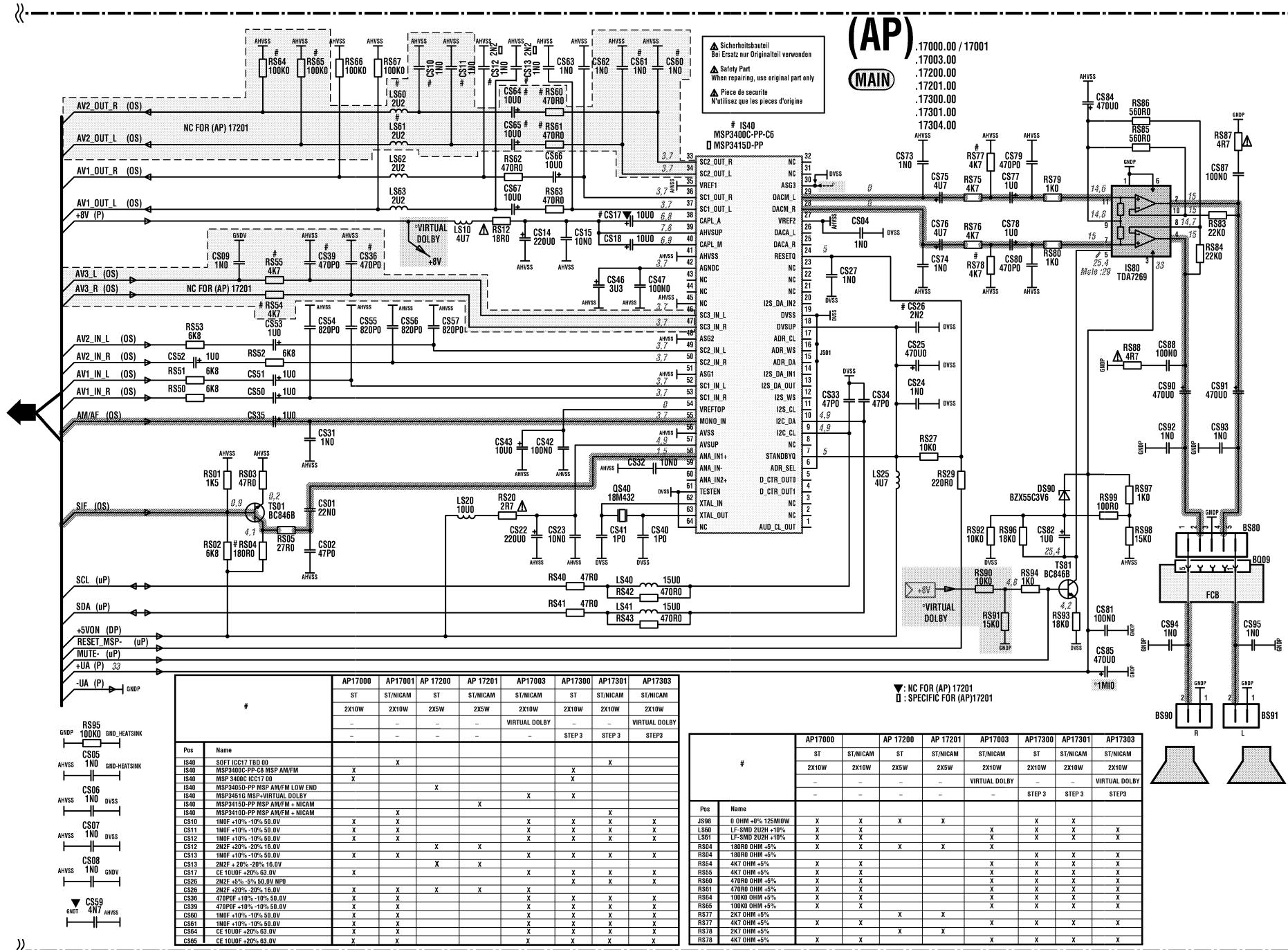
**CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS**



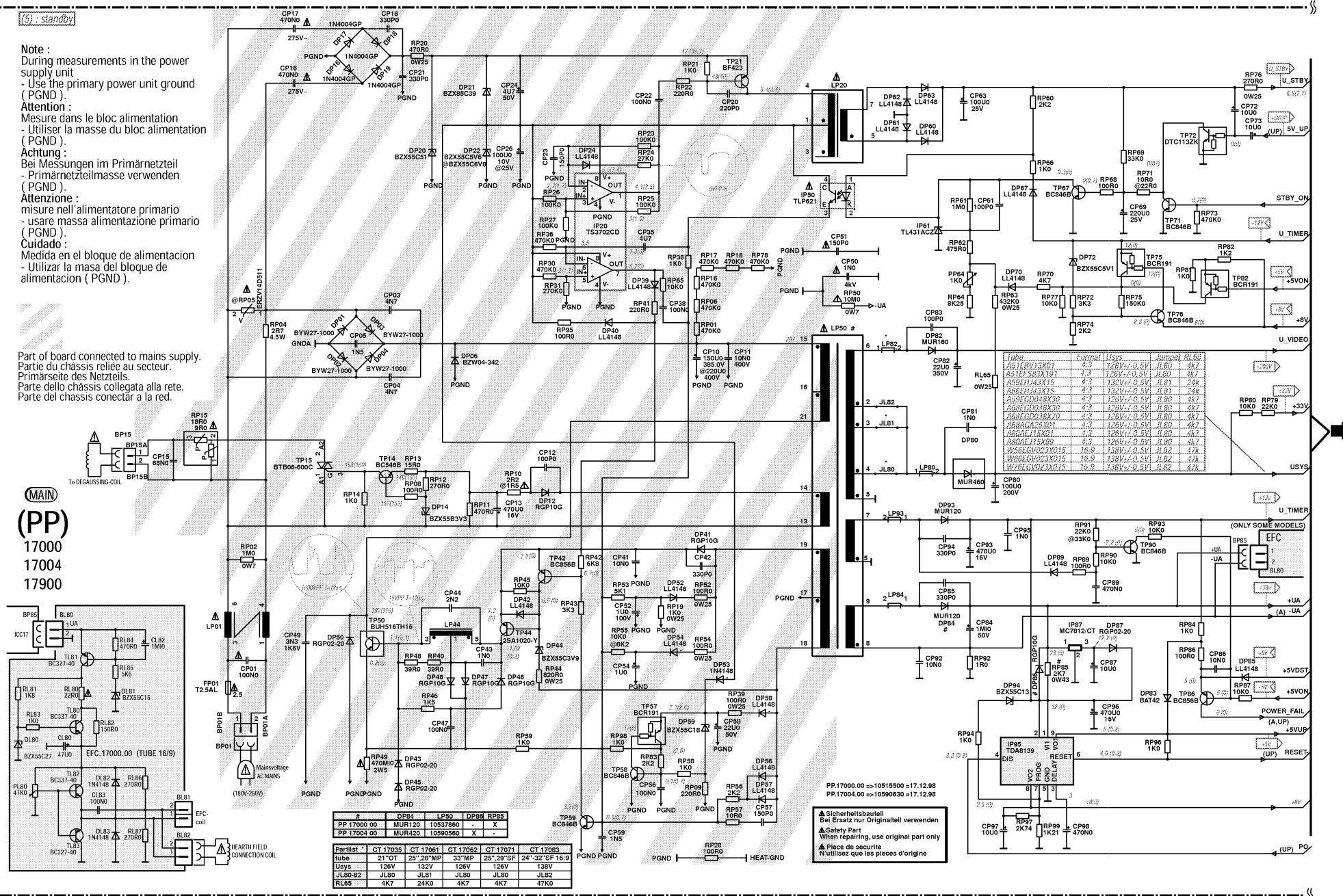
RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR/TRATAMENTO VIDEO



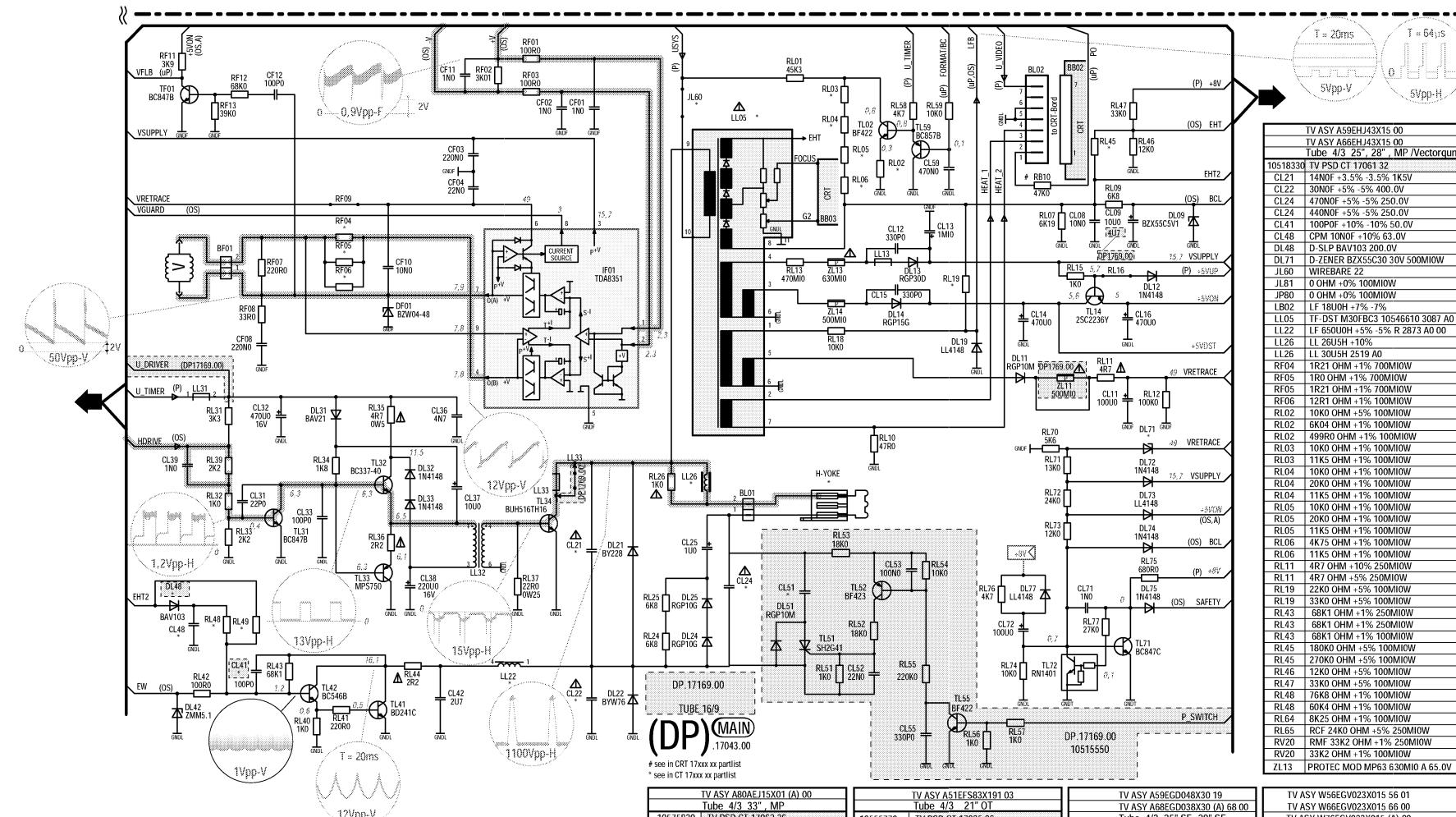
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
ESQUEMA DEL AMPLIFICADOR  
(STEREO)



# POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN



**SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE**



 Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole  ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil.

Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol  gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno  $\Delta$ ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio.

In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el simbolo  $\Delta$ ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.

En ese caso, el fabricante cesa de ser responsable.

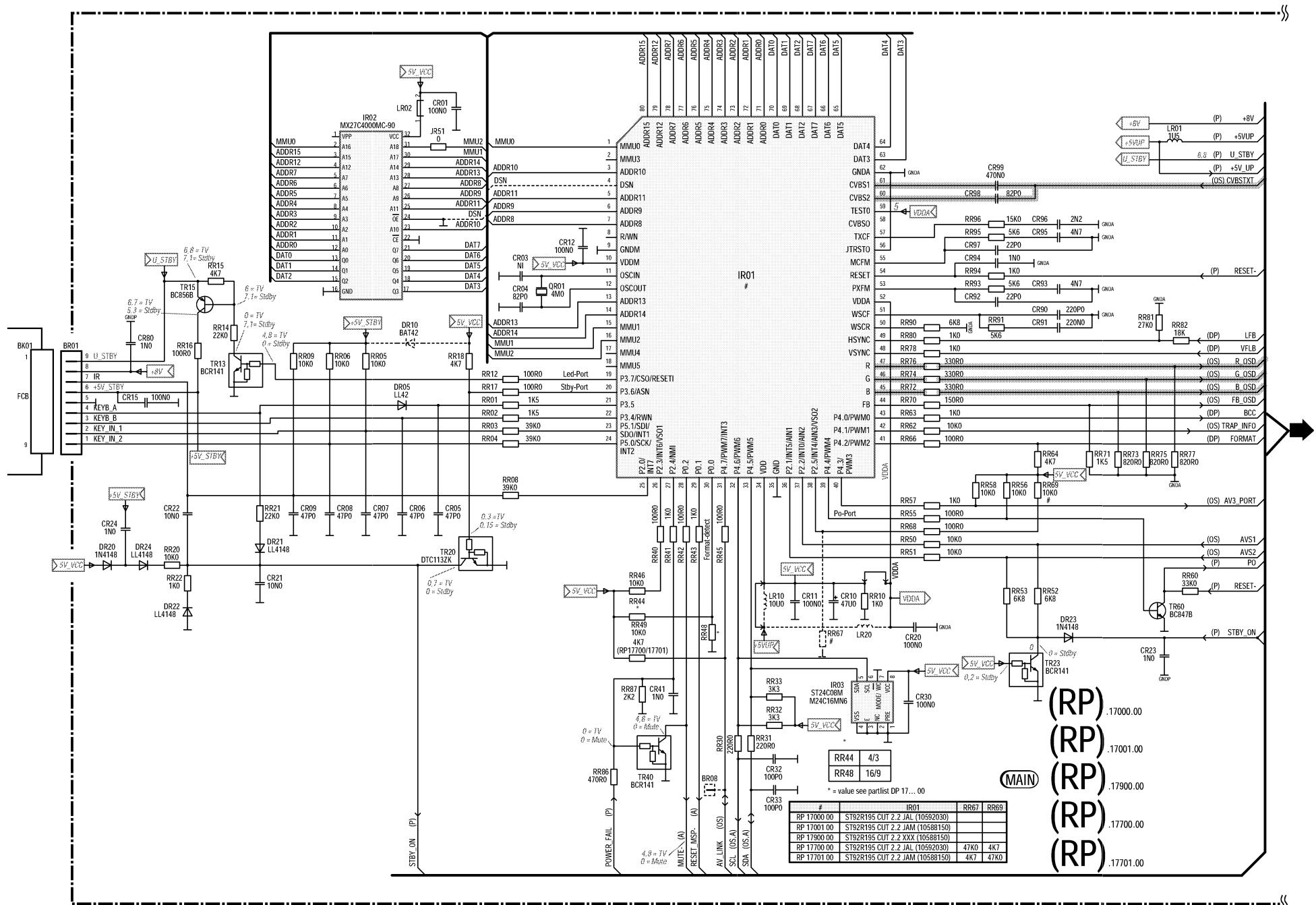
TIV ASY A08AE J1X501(A) 00 Tube 4/3, "33", MP	
10575830	IV PV SPC CI 17082.26
C1.21	16N2F - 3.5% - 3.5% 1K6V
C1.22	30N0F - 5% - 5% 400.0V
C1.24	56N0R +5% - 5% 250.0V
C1.41	100P0U +10% - 10% 50.0V
C1.48	10N0F +10% - 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-75ENER BXZ55C30 30V 500MIOM
JL.60	WIREBARE
JL.80	0 OHM -0.0% 100M10W
LB02	LJ 32UOH +4% -4%
I1.05	TF-STD TS29 TBD 11
L1.22	LJ 650UOH +5% - 5% R 2873 A0
L1.26	LJ 28U5H +10%
RF05	1R21 OHM +1% 700MIOW
RF06	10R0 OHM +1% 100MIOW
RL02	6K04 OHM +1% 100MIOW
RL03	4K75 OHM +1% 100MIOW
RL04	4K75 OHM +1% 100MIOW
RL05	4K75 OHM +1% 100MIOW
RL06	6K91 OHM +1% 100MIOW
RL19	13K0 OHM +5% 100MIOW
RL45	150K0 OHM -5% 100MIOW
RL48	76K8 OHM +1% 100MIOW
RL49	56K0OHM -5% 250MIOW
RL65	RCF 4K7 OHM +5% 250MIOW
RU20	RMS 2.2K OHM +3% -36.0MIOW

TV ASY A51EFS83X191.03	
Tube / 21", 21", 21"	
10555770	TV PSD CT 17035 26
CL21	8N3P -3.5% -3.5% 1K6V
CL22	3NN3P -5% 5% 1KOV
CL24	440NF -5% 5% 250.0V
CL41	1N0F -10% 10% 50.0V
DL71	D-7ENR BZK55C-24 24V 500MIOW
JL60	WIREBARE 22
JL80	0 OHM -0% 100MIOW
LB02	FL 18U0H -7% 7%
LL05	TF-DST M30FBC3 10555640 3087A
LL22	FL 650U0H -2% 273K A0
LL26	LL 850U0H 2515 A0
RF05	1R5 OHM -1% 200MIOW
RF06	10R0 OHM -1% 100MIOW
RL02	6K04 OHM -1% 100MIOW
RL03	10K0 OHM -1% 100MIOW
RL04	10K0 OHM -1% 100MIOW
RL05	10K0 OHM -1% 100MIOW
RL06	32K3 OHM -1% 100MIOW
RL45	110K0 OHM +3% 100MIOW
RL49	60K4 OHM -1% 100MIOW
RL65	4K0 OHM +5% 250MIOW

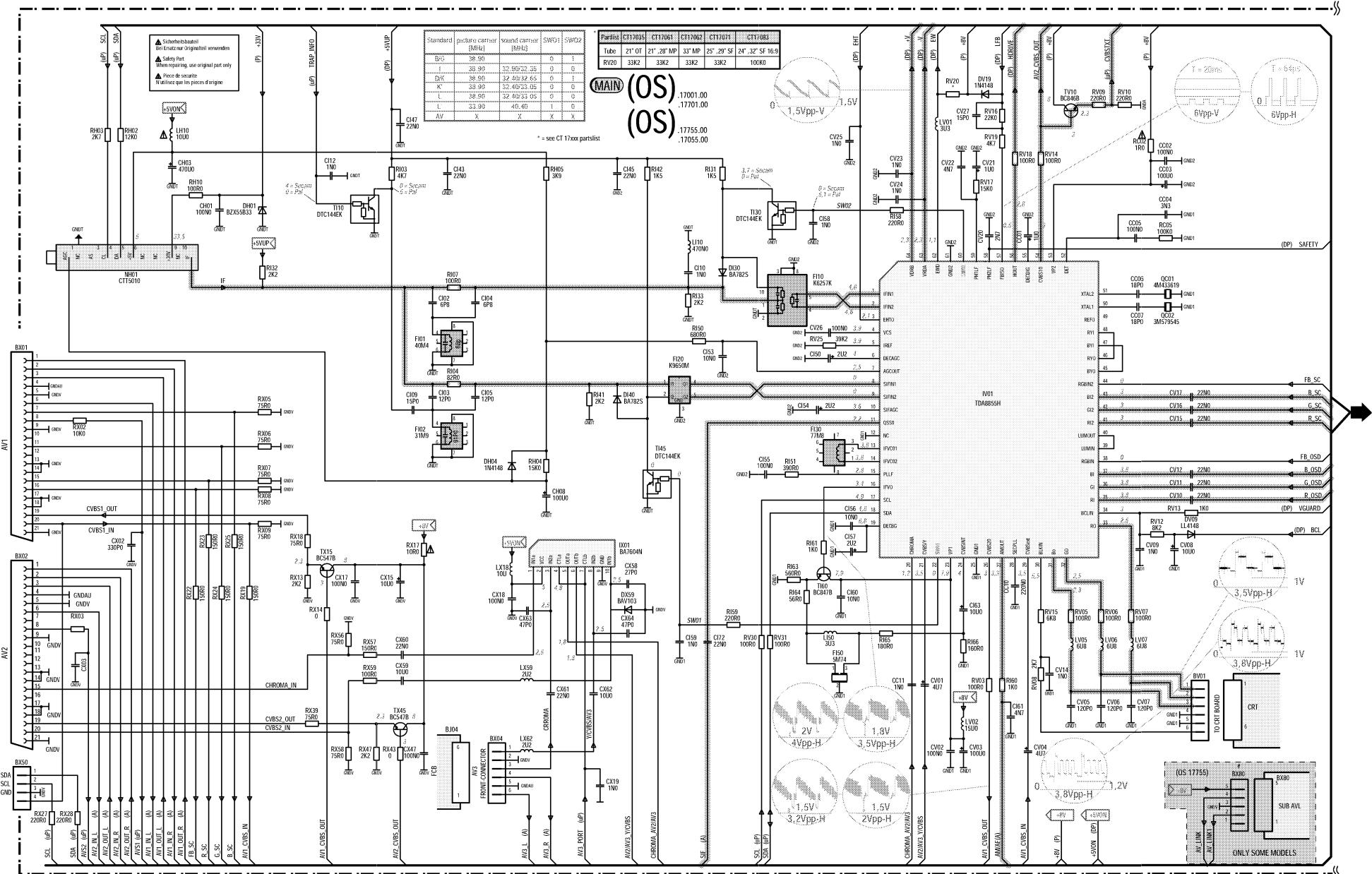
IV	ASY	A59EGD04BX30_19
IV	ASY	A8ECGDD03BX30_19
Tube	4/3	100% 29° SF
10515520	IV	PSD CT 17/01 26
CL21	16N2F-3.5%	-3.5% -1K6V
CL22	30N0F	-5% -5% 400.0V
CL24	510N0E	-5% -5% 250.0V
CL41	100P0F	-10% -10% 50.0V
CL48	10N0F	-10% 63.0V
DL48	D-SLP	BAT103 200.0V
DL71	D-ZENER	BZ55C50 30V 500M10W
JL60	WIREBARE	22
JL80	0 OHM	-0% 100M10W
L802	LF 32U0H	-4% -4%
LL05	TF DST	D529 1BD 13
LL22	LF 650U0H	-5% -5%
LL26	LL 26U9H	-10%
RF05	RMF	180 OHM -1% 700M10W
RU02	6KH 0.8MM	-5% 100M10W
RU03	4K75 OHM	-1% 100M10W
RU04	4K75 OHM	-1% 100M10W
RU05	4K75 OHM	-1% 100M10W
RU06	4K75 OHM	-1% 100M10W
RU19	15K0 OHM	-5% 100M10W
RU45	180K0 OHM	-5% 100M10W
RU48	100K0 OHM	-5% 100M10W
RU49	300K0 OHM	-5% 100M10W
RU65	4K7 OHM	-5% 250M10W
RV09	323U0HMM	-1% 360M10W

	TV ASY W56E6GV023X015	56.01			
	TV ASY W66E6GV023X015	66.00			
	TV ASY W76E6GV023X015	(A)00			
Tube 16	19.4"	24"	28.3"	32"	SF / vectorqrun
0551530	TV-PST CD	1073.838			
CL21	15N5F - 5% - 3.5% - 1K6V				
CL22	27NOF - 5% - 5% 400 DV				
CL24	44N00F - 5% - 5% 250.0V				
CL41	100N0F - 10% - 10% 50.0V				
CL48	100N0F - 5% 63.0V				
CL51	290N0F - 5% - 5% 250.0V				
DL48	D-SLV BA103 200.0V				
DL71	D-7ENR BX55C24 24V 500MIOW				
JL60	WIREBARE 22				
JL82	0.0H -0.5% -100MIOW				
LB02	FL 32U0H -4% -4%				
LL05	DT-D TS2 93 15314460 10				
LL22	FL 65U0H -5% -5%				
LL26	SL 30U3H 2519 A0				
RF05	1R21 OHM -1% 700MIOW				
RL02	4K9H OHM -1% 100MIOW				
RL03	6K49 OHM -1% 100MIOW				
RL04	6K49 OHM -1% 100MIOW				
RL05	6K49 OHM -1% 100MIOW				
RL06	2K37 OHM -1% 100MIOW				
RL19	13K OHM -5% 100MIOW				
RL45	3900 OHM -5% 100MIOW				
RL48	220K OHM -5% 100MIOW				
RL49	180K OHM -5% 100MIOW				
RL65	47K OHM -5% 250MIOW				
RV20	1000 OHM -1% 250MIOW				

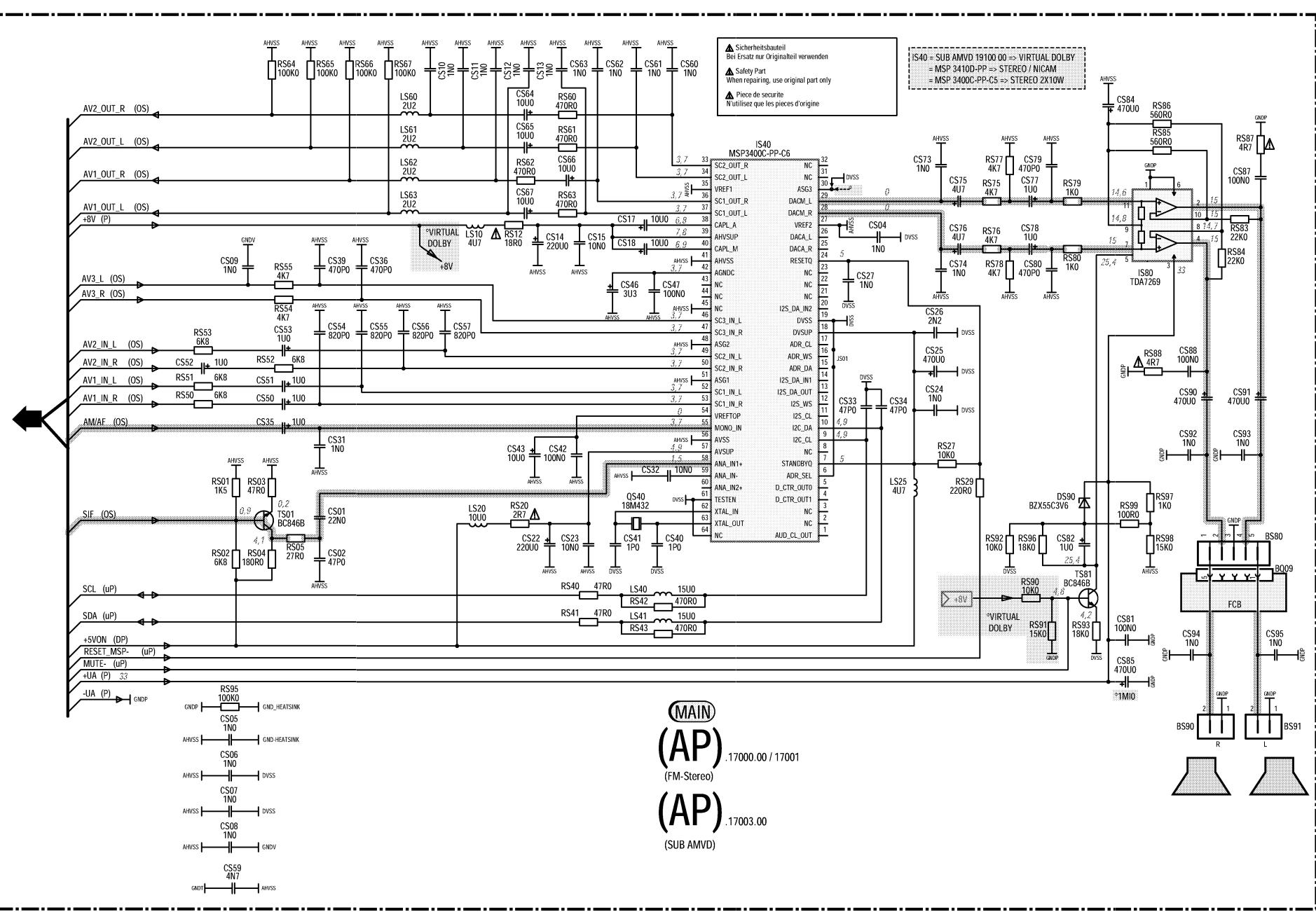
**CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS**



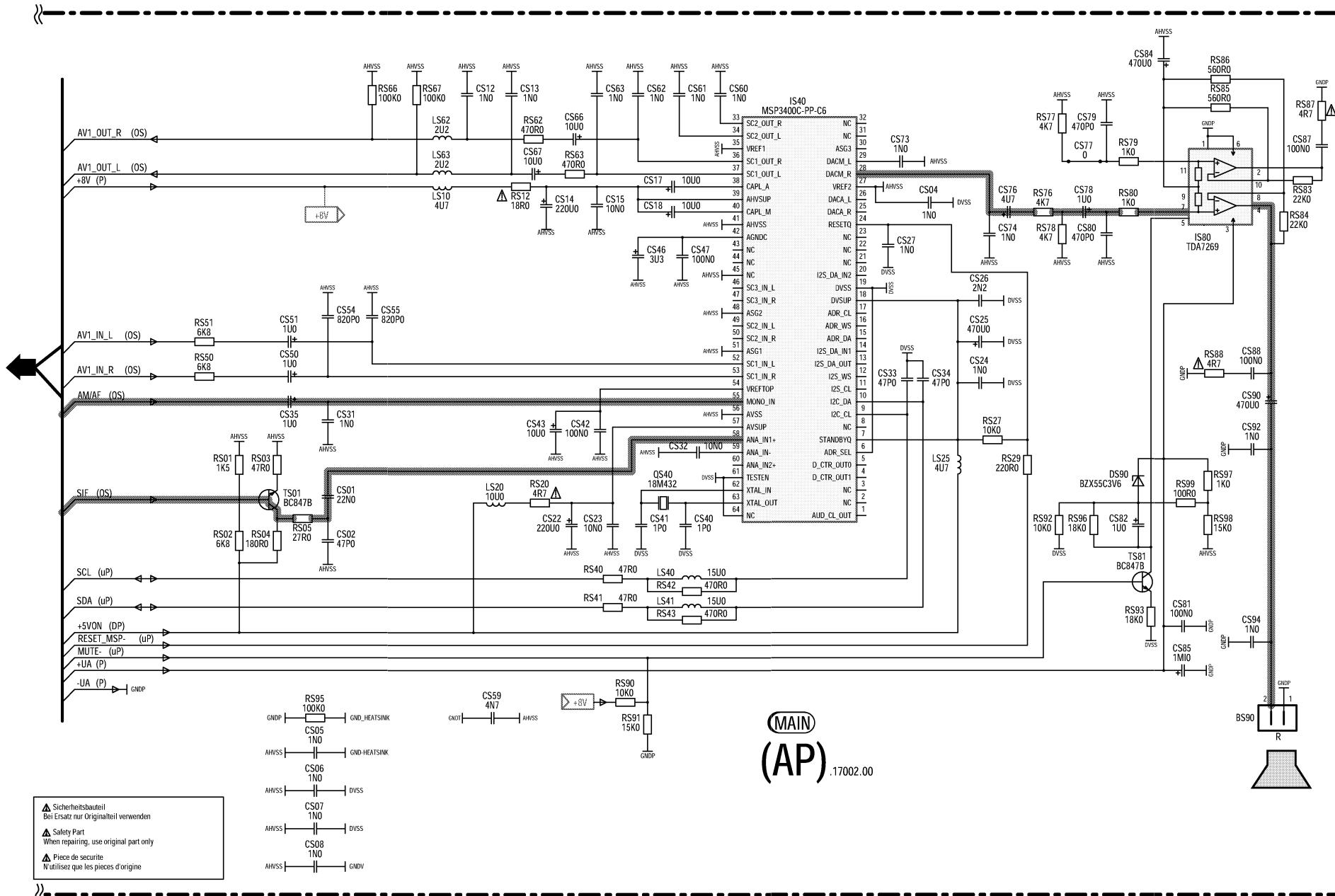
**RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO**



AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE  
ESQUEMA DEL AMPLIFICADOR  
(STEREO)

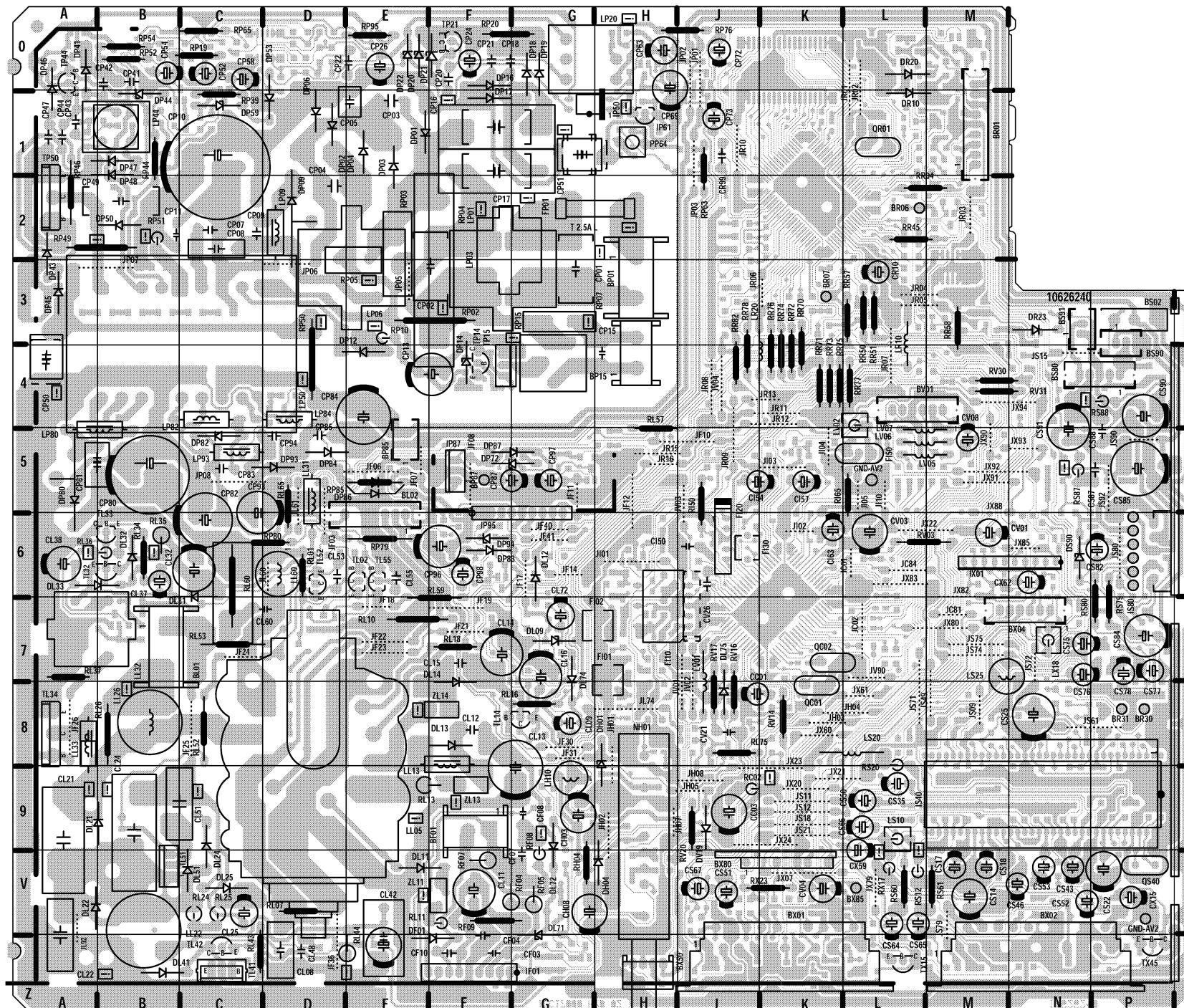


AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE -  
ESQUEMA DEL AMPLIFICADOR  
(MONO)



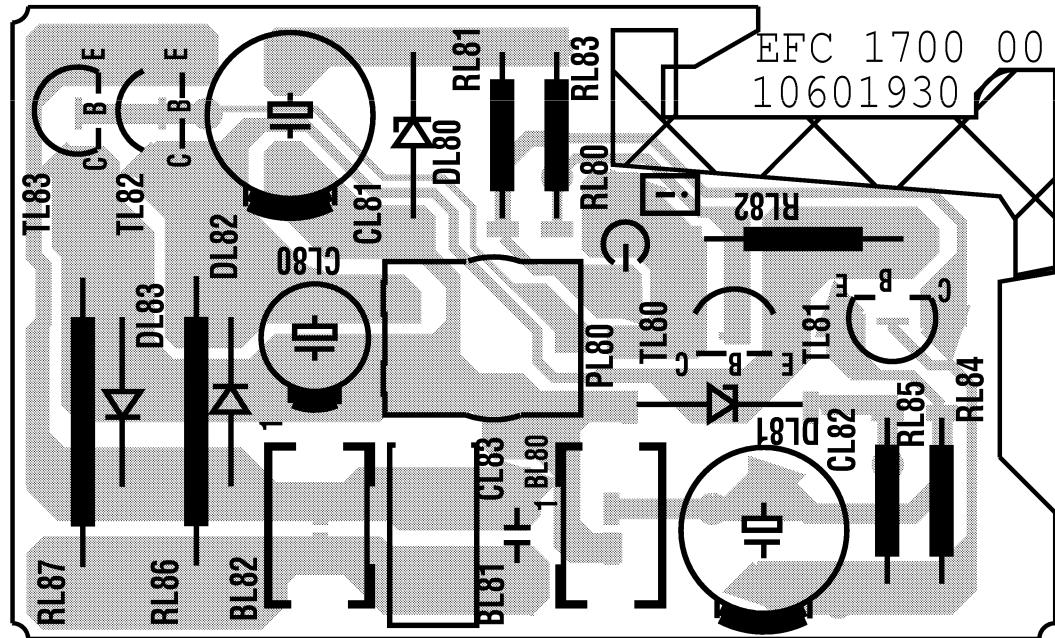
# MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

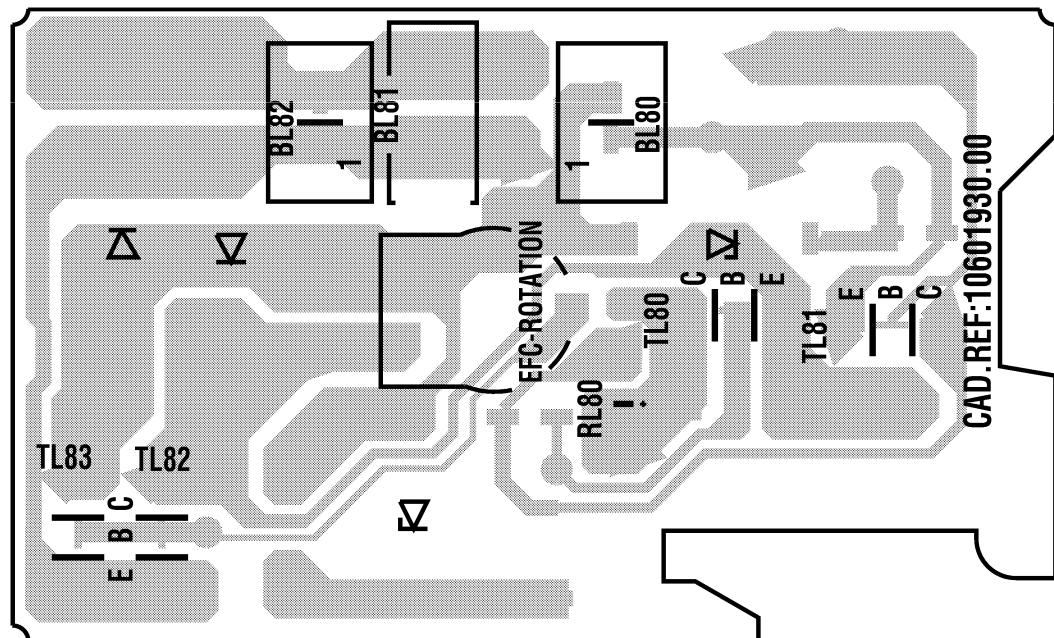


**EFC 17000**  
**EARTH-FIELD CORRECTION BOARD**

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI  
LADO COMPONENTES



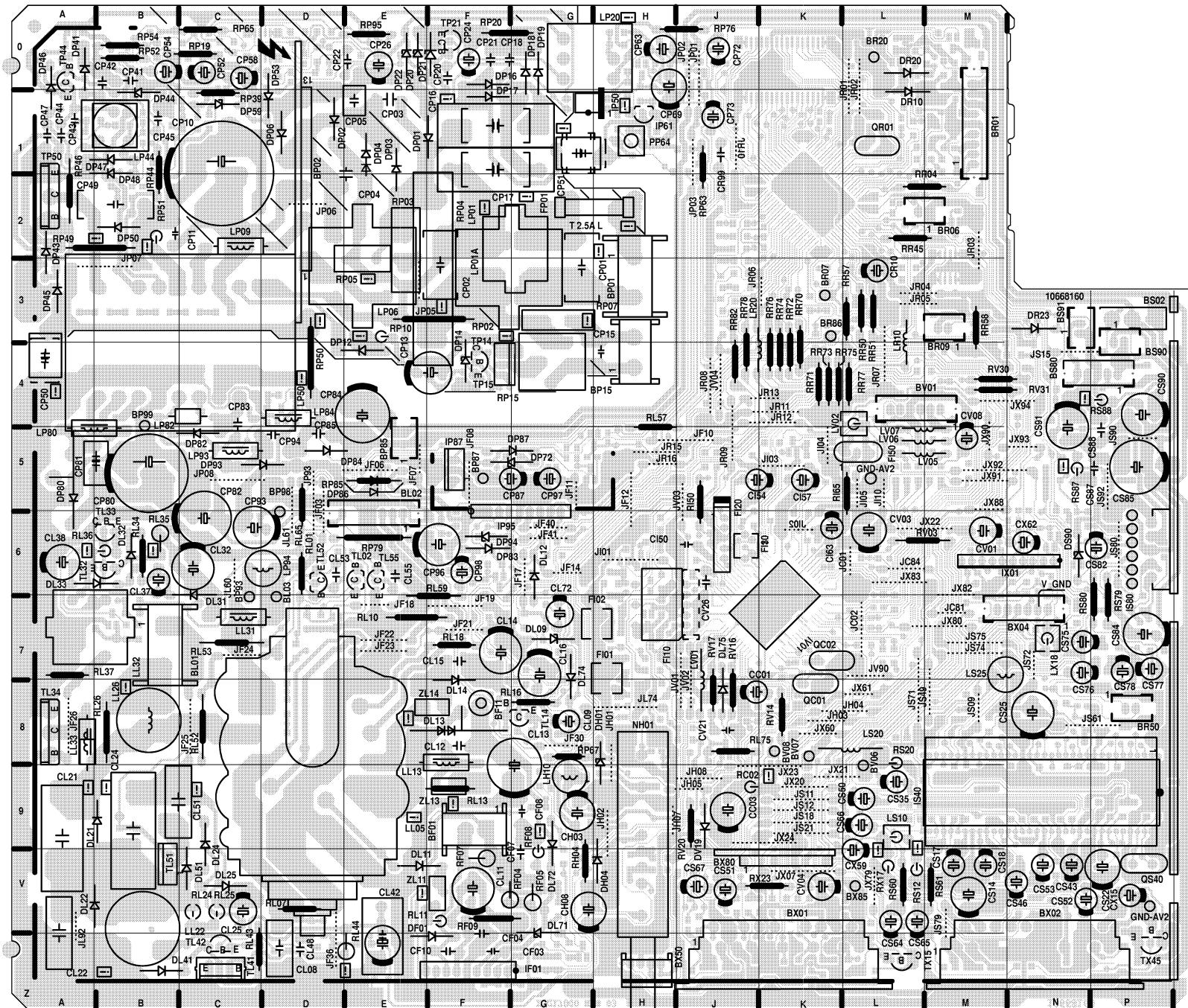
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURA - LADO SOLDADURAS



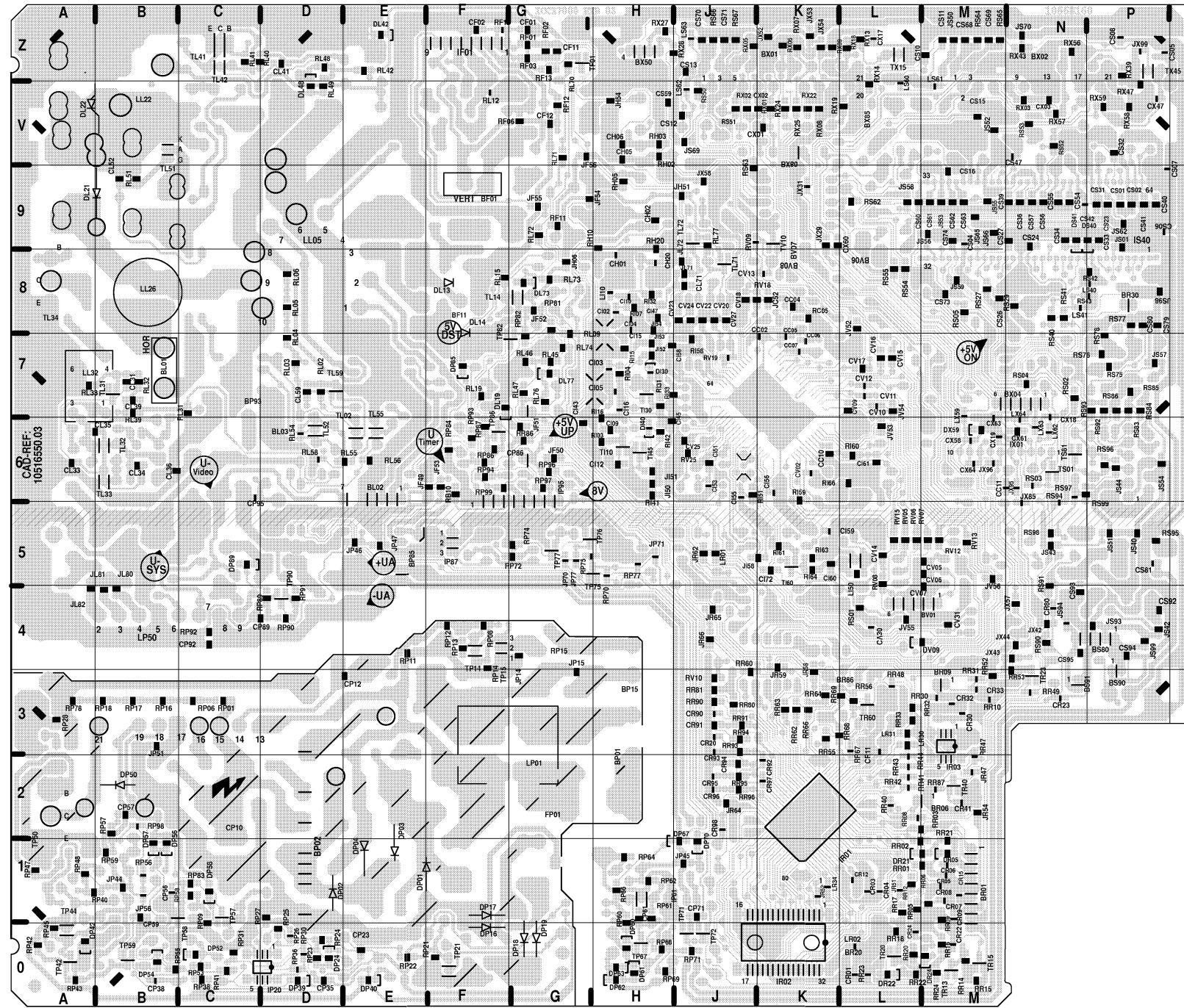


## **MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL**

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

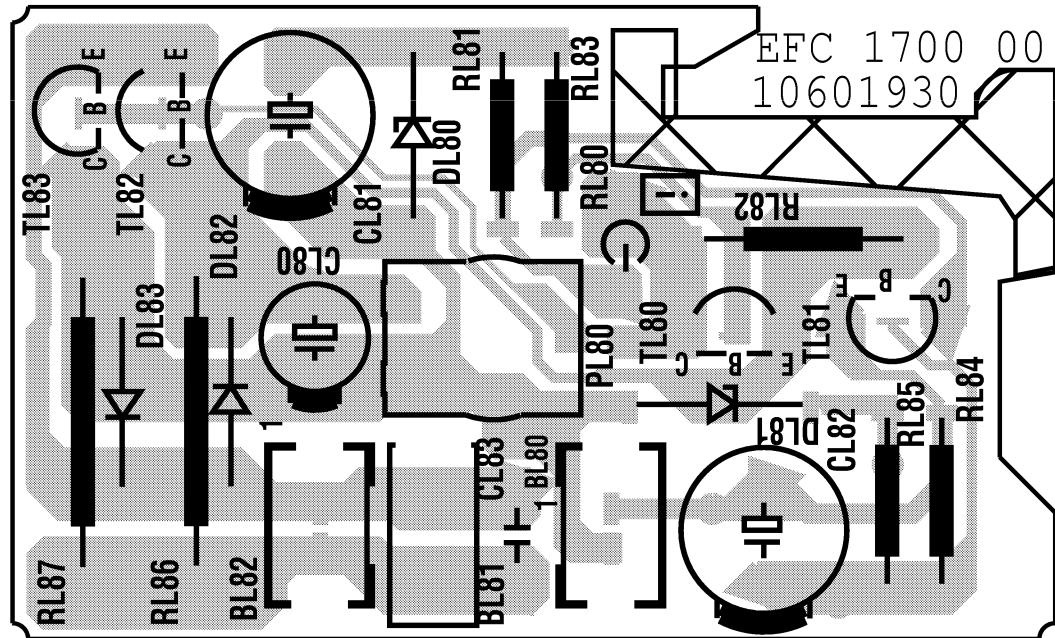


SOLDER SIDE - CÔTE SoudURES - LÖTSEITE - LATO SALDATURA - LADO SOLDADURAS

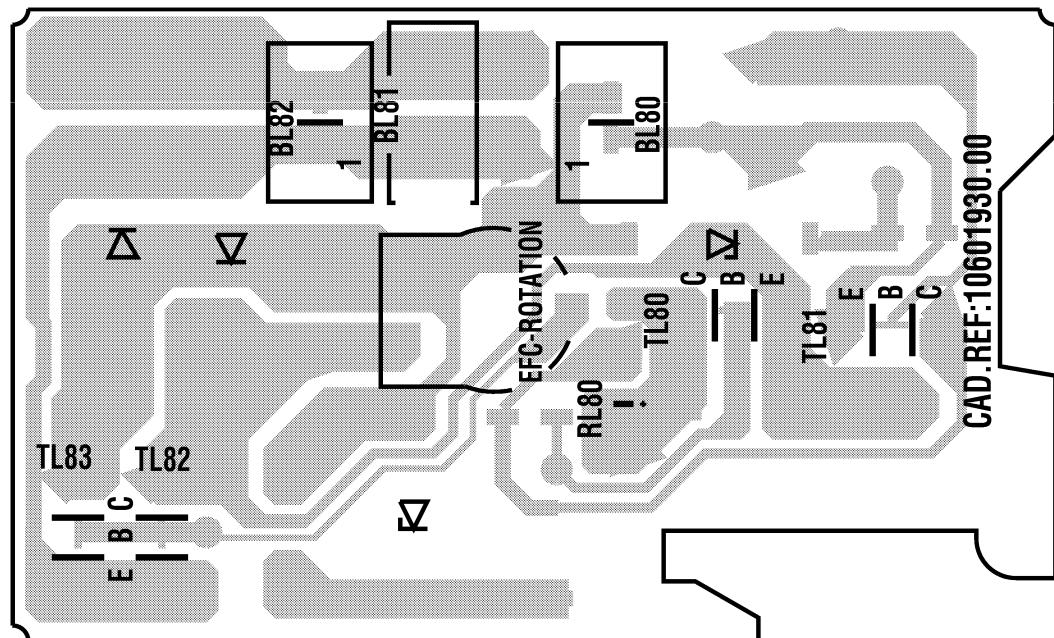


**EFC 17000**  
**EARTH-FIELD CORRECTION BOARD**

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI  
LADO COMPONENTES

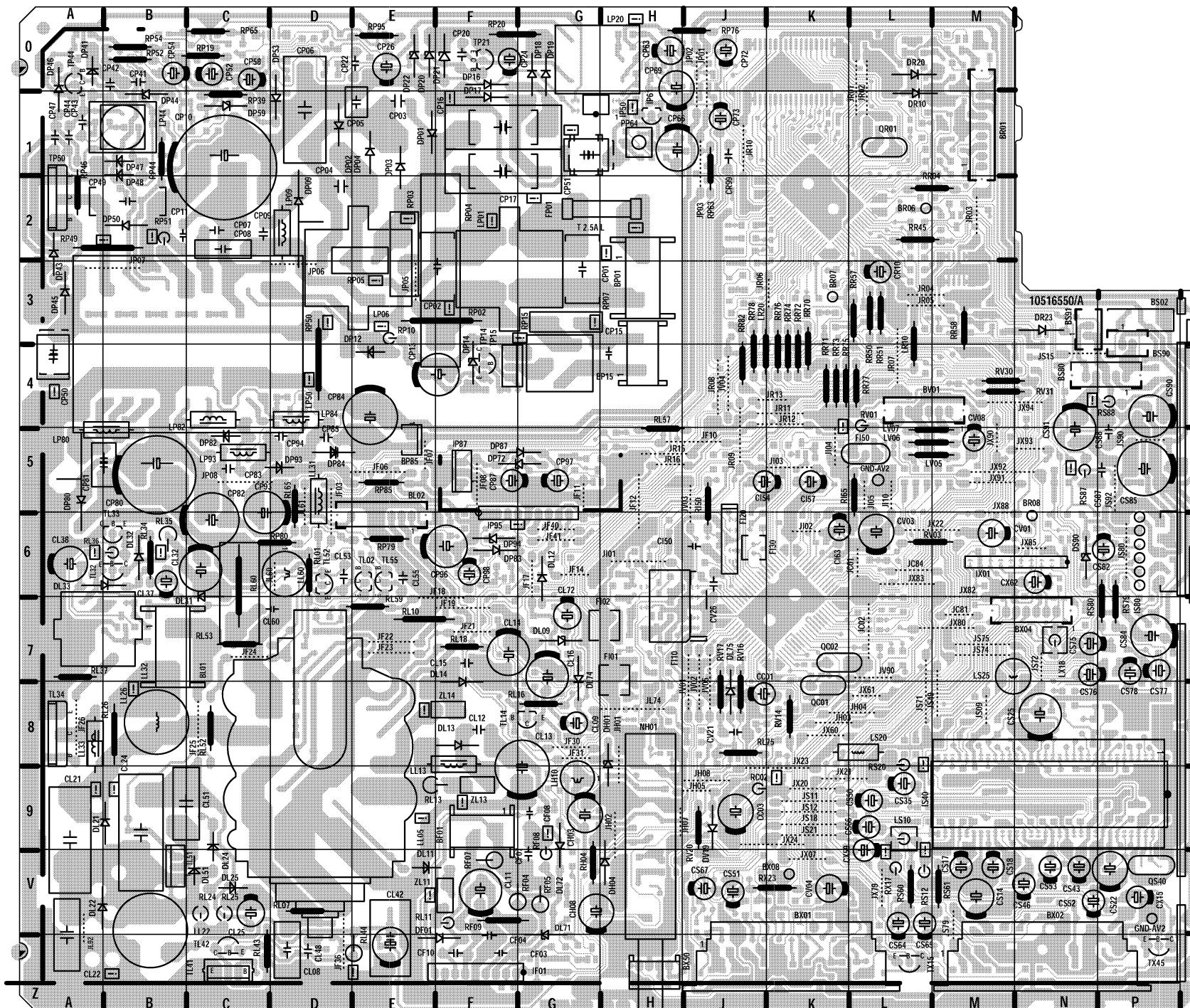


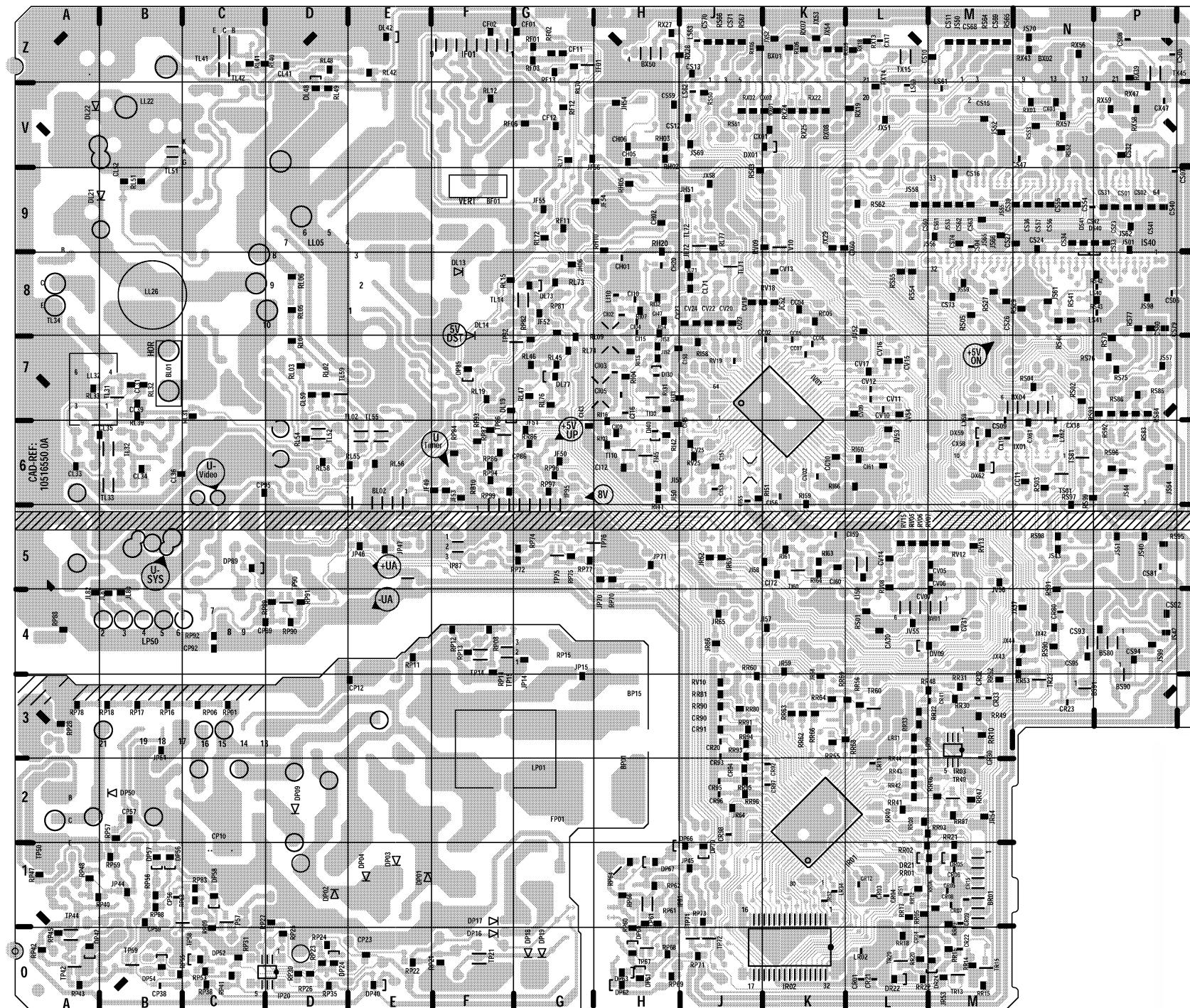
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURA - LADO SOLDADURAS



## **MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPALE**

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES





#### PARTS LIST

**LISTE PIECES DETACHEES**

**ERSATZTEILLISTE**

**LISTA PARTI DI RICAMBIO**

**LISTA DE PIEZAS DE REPUESTO**

**THOMSON**

**Chassis ICC17**

#### MODULES

<b>MAIN</b>	<b>IC17F5RQ02603C</b>	
<b>AVL</b>	<b>SUBAVL17000</b>	<b>R 10614890</b>
<b>CRT</b>	<b>CRT17700 (PCB HYB 02)</b>	<b>R 10651940</b>
<b>FCB</b>	<b>FBC1701</b>	<b>R 25313060</b>
<b>KDB</b>	<b>KDB1706</b>	<b>R 25388640</b>



<b>GK01</b>	TSOP1333	25358570
<b>IB01</b>	TDA6107Q/N2	10659660
<b>IF01</b>	TDA8351	20753830
<b>IP20</b>	TS3702CD FLAT	10537330
<b>IP50</b>	TLP621 GR(D4-LF2 T)	△ 20827900
<b>IP61</b>	TL431ACZ	10538830
<b>IP87</b>	MC7812/CT	46007600
<b>IP95</b>	TDA8139	10044580
<b>IR01</b>	ST92R195 CUT 2.2 FLAT	10588150
<b>IR02</b>	IC-ROM THOMSON V3.20-0	1059455E
<b>IR03</b>	M24C16MN6 FLAT	25348520
<b>IS40</b>	MSP3410D-PP-B3/B4	10510320
<b>IS80</b>	TDA7269	10348790
<b>IV01</b>	TDA8855H FLAT	10533960
<b>IX01</b>	BA7604N	10539590
<b>ZL11</b>	MP25	△ 10500150
<b>ZL13</b>	MP63	△ 10472270



<b>TB01,TL52, TP21</b>	BF423	16003110
<b>TB02,TL02,55</b>	BF422	16003090
<b>TF01,TL60, TL31,TP58,59, 67,71,76,90, TR60,TS01,81, TV10</b>	BC846B SMD	16006260
<b>TI10,30,45</b>	DTC144EK SMD	16007030
<b>TL14</b>	2SC2236Y	16000220
<b>TL32</b>	BC337-40	45001466
<b>TL33</b>	MPS750	16001340
<b>TL34,TP50</b>	BUH516TH16	10401110
<b>TL41</b>	BD241C	16001880

**TL42,TP14,** BC546B 45001866  
**TX15,45**

**TL51** THYHIPWR 10576770

**TL59,TP42,86,** BC856B SMD 16006310

**TR15**

**TL71** BC847C SMD 90618810

**TL72** RN1401 SMD 10966100

**TP15** BTB06-600C 10259910

**TP44** 2SA1020Y 16003740

**TP57** RN2417 SMD 25423180

**TP72,TR20** DTC113ZK SMD 10550750

**TP75,82** BCR191 SMD 16006910

**TP77** RN1409 SMD 20688820

**TR13,23,40** BCR141 SMD 16006890

**TX80,81,85,86,** BC847B SMD 11070770  
88



**DB04,DP16,17,** 1N4004 44009009  
18,19

**DB05** 1.5KE250A 25353360

**DB30,31,50,51,** BAV21 44044407

**70,71,DJ20,**

**DL31**

**DE01** BZX55C2V7 80444120

**DH01** BZX55B33 80442730

**DH04,DL12,32,** 1N4148 44009209

**33,72,74,75,**

**DP53,DR20,23,**

**DV19**

**DI30,40** BA782S 20542050

**DJ20,DL48,** BAV103 SMD 10155030

**DX59**

**DK01,DL09,** BZX55B5V1/ZPD5V1 2% 44035702

**DP72**

**DL11,24,25,41,**

**DP12,41,46,47,**

**48**

**DL13** FUF5402 10458530

**DL14** RGP15G 10272800

**DL19,73,77,** LL4148 SMD 16012450

**DP24,39,40,42,**

**52,54,56,57,**

**58,60,61,62,**

**63,67,70,85,**

**89,DR21,22,24,**

**DV09**

**DL21** BY228 16008370

**DL22** BYW76 16009120

**DL42** ZMM5,1 SMD 70446740

**DL51** RGP10M 10455320

**DL71** BZX55C20 30948810

**DP01,02,03,04** BYW27-1000 10455390

**DP06** BZW04-342 25354340

**DP14** BZX55C3V3 30948790

**DP20** ZPD51/BZX55C51/BZX79C51 90578110

**DP21** BZX85C39 80444000

**DP22** BZX55C6V8 50890650

**DP43,45,50,87** RGP02-20 10472330

**DP44** BZX55C3V9 80444130

**DP59** BZX55C18 11073680

**DP80** MUR460 16009650

**DP82** FUF4005/MUR160 16009580

**DP83** BAT42 16007410

**DP84** MUR120 10564670

**DP93** MUR420 16009630

**DP94** BZX55C13 70438310

**DR05** LL42 SMD 16012530

**DS90** BZX55C3V6 50890640

**DX86** BAS20 SMD 16012250

**DX87** BZX84B8V2 SMD 25385640

**GE01** TLUV5300 LED 11137650



**FI10** OFWK6282K FOS 10648840

**FI20** OFWK9650M FOS 10545440

**FI50** 5M74HZ 20338170

**QC01** 4M433619HZ 10087710

**QC02** 3M579545HZ 10542190

**QR01** 4M0HZ 10254300

**QS40** 18M432HZ 10334670



**FI01** 40M4HZ 20300950

**FI02** 31M9HZ 10552630

**FI30** 77M8HZ 10559760

**LL22** 10636390

**R : RECYCLED PART**

**: PIECE RECYCLEE**

**: AUSTAUSCHTEILE**

**: RICAMBIO RICICLATO**

**: MODULO REPROCESADO**

For any requests, please contact THOMSON multimedia after sales service area

Pour toutes précisions, contactez votre service après vente local THOMSON multimedia

Für weitere Auskünfte, wenden Sie sich bitte an die THOMSON multimedia Kundendienste

Per precisazioni, contattate l'assistenza tecnica THOMSON multimedia

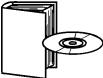
Para cualquier pregunta, por favor contactar con el responsable de zona del servicio postventa de THOMSON multimedia

**01 / 2000** **35105110**

**REV. N° 0 00 / 00** **00000000**

**1/3**



FITTING DOWNER CALE INFERIEURE POLSTER UNTEN DISTANZIATORE INFERIORE CALZO INFERIOR	25348810		
FITTING UPPER CALE SUPERIEURE POLSTER OBEN DISTANZIATORE SUPERIORE CALZO SUPERIOR	25348820		
			
28WN22E PARTS LIST 28WN22E LISTE DE PIECES DETACHEES 28WN22E ERSATZTEILLISTE 28WN22E LISTA PARTI DI RICAMBIO 28WN22E LISTA DE PIEZAS DE REPUESTO	35105110		
ICC17 SERVICE MANUAL EUROPE ICC17 DOC TECHNIQUE EUROPE ICC17 TECHNISCHE DOKUMENTATION EUROPE ICC17 DOCUMENTAZIONE TECNICA EUROPE ICC17 DOCUMENTACION TECNICA EUROPE	35063330		
28WN22E UM TH D/F/I/E/GB/NL/S/DK/PL/GR 28WN22E NU TH D/F/I/E/GB/NL/S/DK/PL/GR 28WN22E BA TH D/F/I/E/GB/NL/S/DK/PL/GR 28WN22E IU TH D/F/I/E/GB/NL/S/DK/PL/GR 28WN22E IU TH D/F/I/E/GB/NL/S/DK/PL/GR	25390150		
ICC17 UPDATING N°01 ICC17 MISE A JOUR N°01 ICC17 ERGAENZUNG N°01 ICC17 AGGIORNAMENTO N°01 ICC17 ACTUALIZACION N°01	35080950		
CDROM ICC17 CDROM ICC17 CDROM ICC17 CDROM ICC17 CDROM ICC17	35065140		

## 28WN22E

3/3

The description and characteristics given here are of informative significance only, and non committal. To keep up the high quality of our products, we reserve the right to make any changes or improvement without previous notice. • Les descriptions et caractéristiques figurant sur ce document sont données à titre d'information et non d'engagement. En effet, soucieux de la qualité de nos produits, nous nous réservons le droit d'effectuer, sans préavis, toute modification ou amélioration. • Die Beschreibungen und Daten in dieser Anleitung dienen nur zur Information und sind nicht bindend. Um die Qualität unserer Produkte ständig zu verbessern, behalten wir uns das Recht auf Änderungen vor. • Le descrizioni e le caratteristiche date su questo documento sono fornite a semplice titolo informativo e senza impegno. Ci riserviamo il diritto di eseguire, senza preavviso, qualsiasi modifica o miglioramento. • Las descripciones y características que figuran en este documento se dan a título de información y no de compromiso. En efecto, en bien de la calidad de nuestros productos, nos reservamos el derecho de efectuar, sin previo aviso, cualquier modificación o mejora.

# THOMSON

MULTI  
MEDIA

LES PROGRAMMES

LA FORMATION PARATECHNIQUE

LES PRODUITS HIGH TECH

FORMATION VENDEURS

MICRO INFORMATIQUE

JOURNÉES FORMATION SERVICE

MAINTENANCE 1<sup>er</sup> DEGRÉ D'INTERVENTION

LES STAGES TECHNIQUES

Techniques Vidéo

Techniques Télévision

INFORMATIONS SUR THOMSON

NOS COORDONNÉES

RÉSUMÉS DE COURS

CASSETTES D'AIDE A LA MAINTENANCE

BULLETIN D'INSCRIPTION

ACCÈS À NOS LOCAUX

HÔTELS

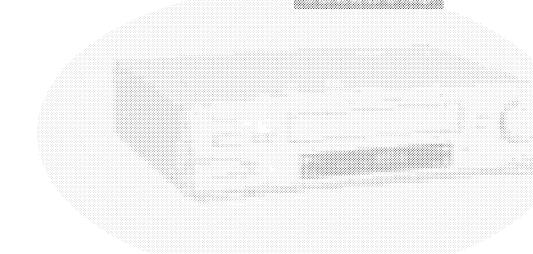
QUITTER

100 Hertz  
*motion mastering*

VIRTUAL  
DOLBY  
SURROUND

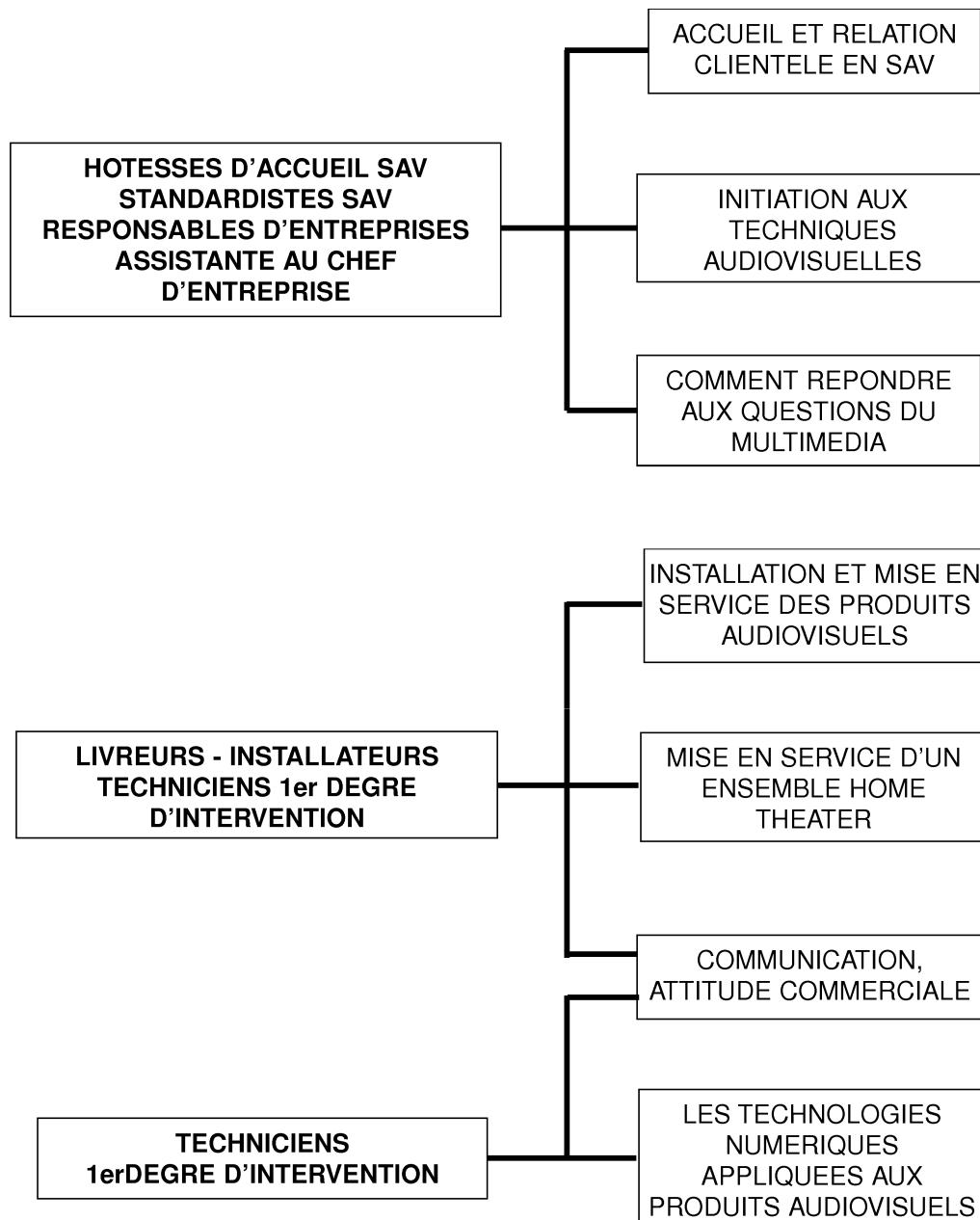
NAVLIGHT  
system

LYRA



CENTRE DE FORMATION  
THOMSON multimedia

# LA CHAÎNE du SERVICE



# LES PRODUITS HIGH TECH

**RESPONSABLES D'ENTREPRISES  
DIRECTEURS SAV  
TECHNICIENS 1er DEGRE D'INTERVENTION  
TECHNICIENS D'ATELIER**

LA TECHNOLOGIE DES  
ECRANS PLASMA

LA TECHNOLOGIE DES  
LECTEURS DE DISQUES  
NUMERIQUES DVD

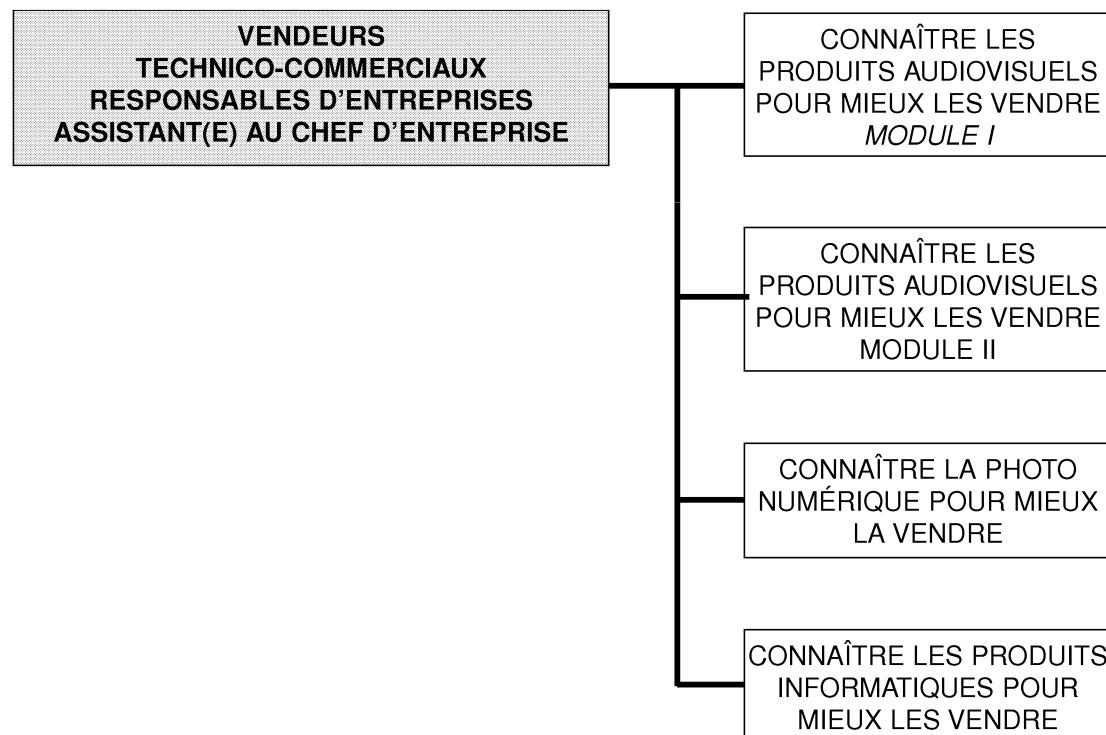
LES LECTEURS AUDIO  
FORMAT MP3

LES CAMESCOPES  
NUMERIQUES DVCR

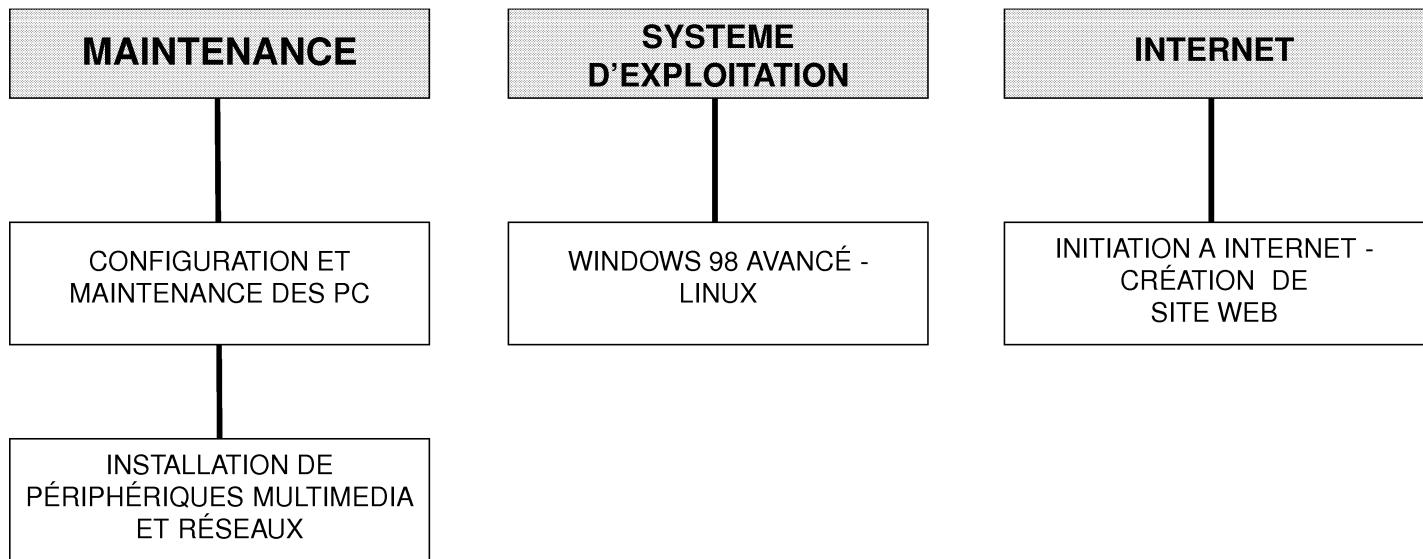
LE HOME THEATER

LES TECHNOLOGIES EGP  
A L'ERE DE  
L'INTERACTIVITE

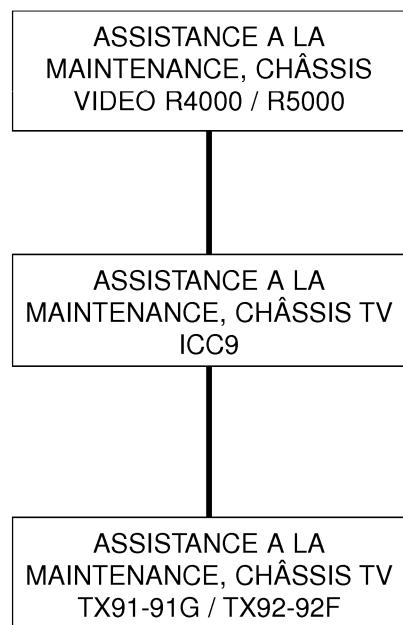
# LES FORMATIONS VENDEURS



# MICRO INFORMATIQUE

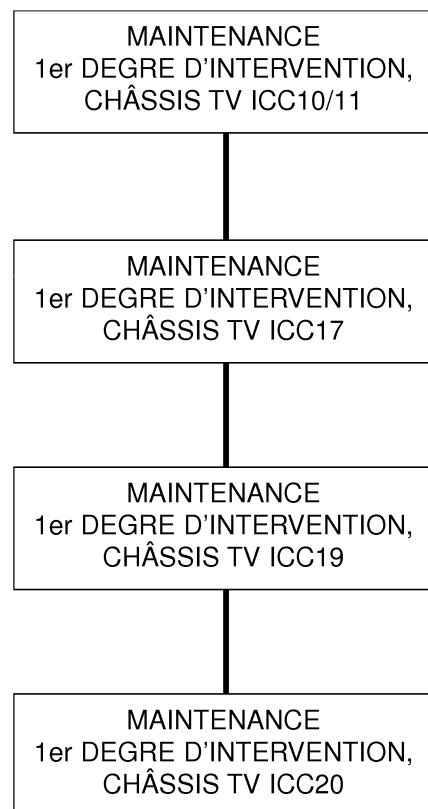


# LES JOURNEES FORMATION SERVICE

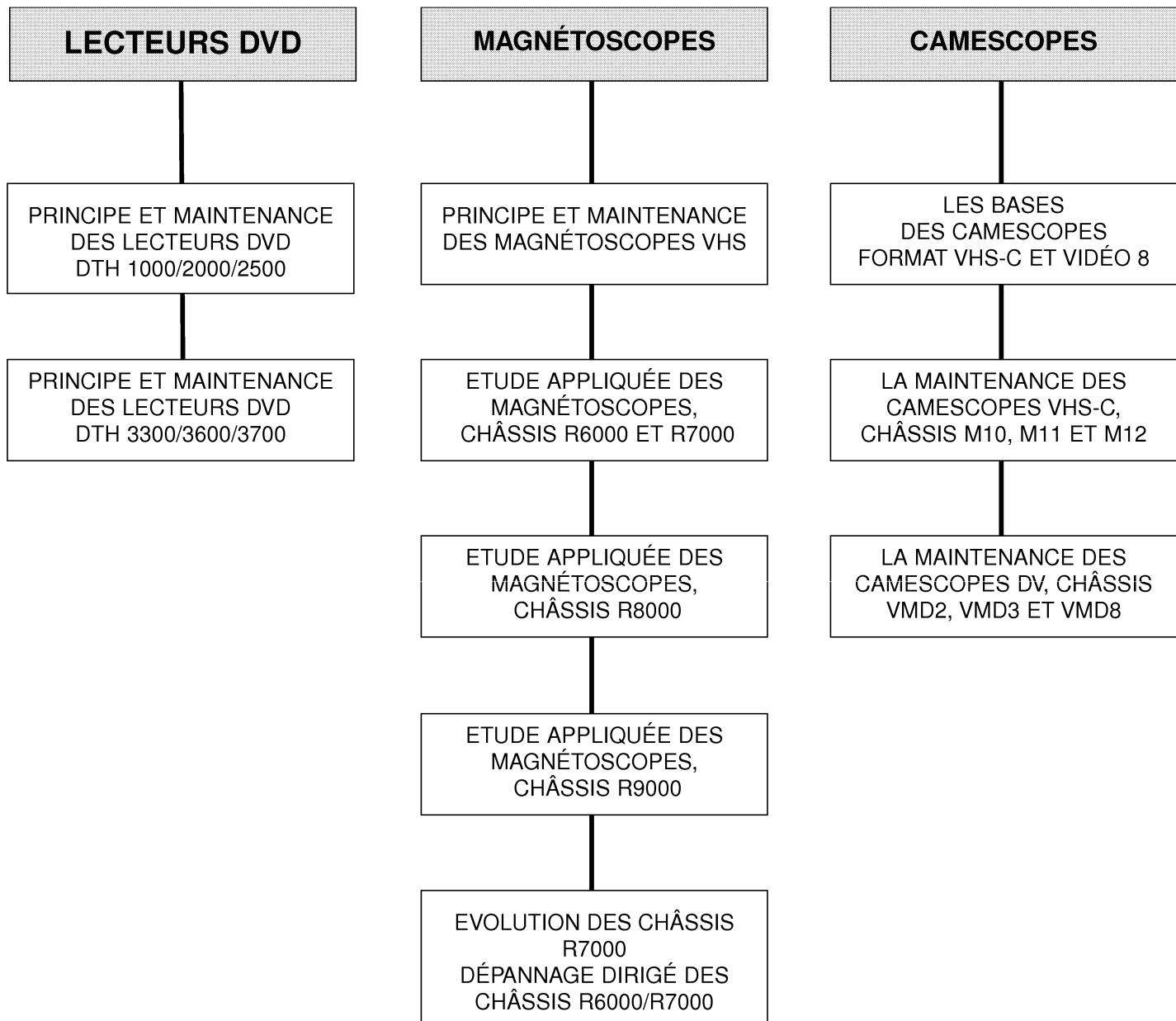


# MAINTENANCE

## *1er degré D'INTERVENTION*



# LES TECHNIQUES VIDÉO



# LES TECHNIQUES TÉLÉVISION

